School Supplies and Equipment

1951 1952

American seating company

16th at hamilton philadelphia 30, pennsylvania

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BEFORE ORDERING, PLEASE READ THESE SUGGESTIONS

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If you have occasion to write us regarding a previous order, furnish the date, as nearly as possible, and order number on which the order was mailed and the articles ordered. An investigation will be made and your letter answered promptly.

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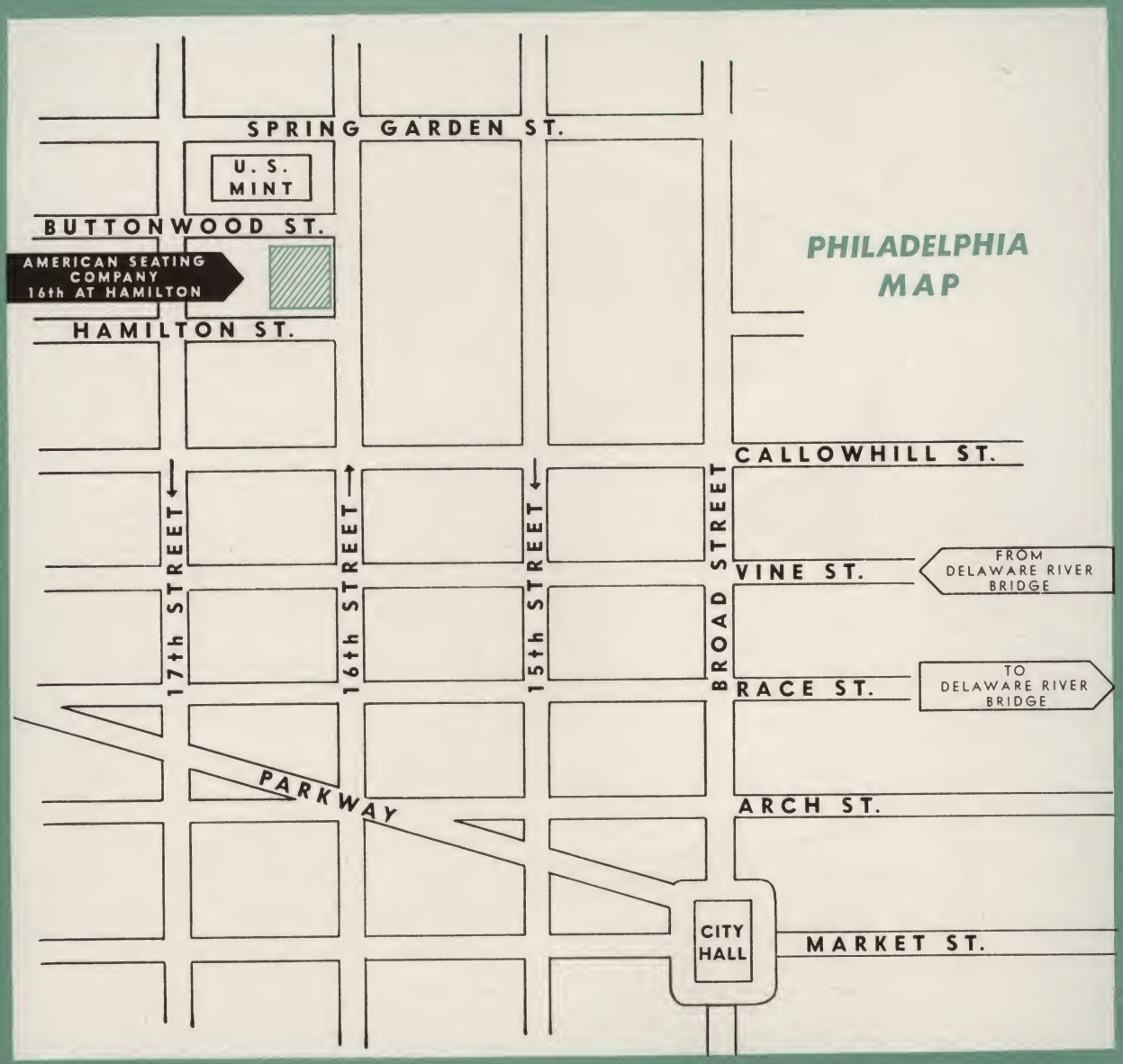


SHOWING OUR PHILADELPHIA LOCATION

American School Furniture

ALSO AUDITORIUM AND STADIUM SEATING, CHAPEL FURNITURE, AND FOLDING CHAIRS

Philadelphia
16th at Hamilton (Zone 30)

AMERICAN SEATING COMPANY
GRAND RAPIDS, MICH.

Pittsburgh
212 Oliver Avenue (Zone 22)

The New "Ten-Twenty" American Universal® Desk (No. 436)

Showing top at 20° slope —
ideal for reading and writing or drawing

Top level for
manipulative tasks

Top at the "conventional"
10° slope

Top raised for
easy access to book-box

Write for booklet, **"The Case for the Ten-Twenty."** Summarizes studies by Texas Commission, on lighting, posture, seating, visual and physiological problems of school child; also bibliography on these subjects; and comments by educators using 10°-20° Desk.

Also **"The Co-ordinated Classroom,"** by Darell Boyd Harmon. This 48-page illustrated booklet covers every phase of the subject: posture, lighting, decoration, equipment, and visual problems — with special emphasis on the growth, development and body mechanics of the school child.

Universal Desks are covered by patents and patents pending.

DIMENSIONS FOR
"TEN-TWENTY" DESK (No. 436)

Size	C	B	A
Grade	I - III	II - VI	V - Adult
Seat Height (inches)	11½ - 15½	11½ - 15½	14 - 18
Desk Height	23 - 28	23 - 28	26 - 31
Net Over-all Front to Back[1]	30 - 32½	31 - 33½	32¼ - 34¾
Desk to Back[2]	9¼	10¼	11¼
Seat Depth	11	12¼	14
Recommended Spacing Back to Back	34½	35¾	37

[1] Seat swiveling adds approximately 1 inch.
[2] Sitting space, with top at 20° slope and seat forward.

OUR LATEST CONTRIBUTION TOWARD CO-ORDINATED CLASSROOM ENVIRONMENT

HERE is the new "TEN-TWENTY" (10°-20°), the American Universal "Desk of the Future." Developed in accordance with accepted principles of the co-ordinated classroom — the ideal visual and postural environment being planned by leading school authorities. Embodying the basic features of other American Universal desks, it includes special, new features.

Choice of Three Top Positions

This new, balanced-posture desk offers to pupils — for the first time — a 20°-sloped top for greatest ease of reading and writing or drawing, with the conventional 10° slope when lesser slope is wanted — AND a level top. The level position is particularly useful for manipulative tasks, such as clay modeling and block arrangement. *All three positions* are quickly attainable, by raising or lowering top to position wanted.

Fore-and-Aft Seat Adjustment

This new, exclusive adjustment functions automatically at will of pupil, without operation of any locks or devices, stopping smoothly, quietly at both ends of seat travel (2½") or at intermediate positions. Approaches perfect focal adjustment for all work on the desk top in each use position, whether for reading, writing, drawing, or manipulative assignments.

Height Adjustments

To assure further the proper positioning and comfort of the pupil, both the seat and book-box are adjustable to required heights by means of one-piece, rounded, never-failing-clamps on the Universal frame.

Universal Swivel Seat

Seat swivels 45° either way, to silent, cushioned stops, reducing body torque induced by the child's right or left hand and eye preferences. It also provides easy ingress and egress. Has large, long-life swivel-bearing (area, approximately 9 square inches) and means of adjustment, insuring permanently smooth operation. Deep-curved back with self-adjusting lower rail to fit each occupant, and plywood cradleform posture seat with no rearward elevation, promote relaxed sitting with freedom to perform.

Universal Book-Box

Roomy, sanitary, one-piece steel book-box with round-rolled edges. Smooth, rounded lines and contact surfaces, inside and out, leave generous knee and leg room. Strong plywood top, 20¼ x 24 inches. Tamper-proof, housed mechanism quietly and automatically locks and releases to desired positions. Full-length pencil tray along inside of edge closest to occupant. (Inkwell is optional as an accessory.)

Universal Frame

Connecting member of one-piece heavy steel tubing provides maximum durability with minimum weight, for easy moving. Fluted foot-rest minimizes marring of finish. Solid metal glides, 1½ inches in diameter; rubber shoes are available.

"TEN-TWENTY" and other Universal desks are available in the L-31 light, natural-wood finish, with 30% to 55% light reflectance in conformance with the now-accepted principles of brightness ratios. Beautifully and durably lacquered. All metal parts dipped in E-286 beige enamel (special-formula, alkyd-urea type) and baked to a smooth, hard finish.

Plywood tops, seats and back rails are bonded with hot-press, urea-resin adhesive, for maximum strength and moisture-resistance.

Seat swivels 45° either way, to silent, cushioned stops. Large area of swivel-bearing, and means of adjustment, insure permanently smooth operation.

Universal Lifting-Lid Desk

THE No. 434 American Universal Lifting-Lid Desk has proved tremendously popular. Continuous research, designing, engineering and rigorous testing are responsible for this popularity, which is based on the improved features described below. More than a million Universal Desks have been produced, most of which are still in use — thanks to their sturdy construction and sound design. Except for the three-position top and fore-and-aft seat adjustment of the "Ten-Twenty," the No. 434 has all the *basic* Universal features embodied in that desk. These basic points include the rounded, one-piece steel book-box; cradleform, swivel seat, with deep-curved back and self-adjusting lower rail; never-failing height-adjustment clamps for both seat and book-box; fluted foot-rest.

★ ★ ★

Illustration below shows lid of No. 434 book-box in lifted position, affording easy access to contents. Note round-rolled edges, and hinge housing.

No. 434 Universal Book-Box — Roomy, sanitary, one-piece steel with round-rolled edges. Smooth rounded lines and contact surfaces inside and out leave generous knee and leg room. Strong plywood top, 18 x 23¾ inches; lid used in either level or 10°-sloped writing position. Rounded, in-turning hinge line prevents pinching of objects between lifting lid and cover strip. Strong, housed, non-pinching blade-hinges. Non-slam friction-control is adjustable and quiet. Full-length pencil tray along inside of edge nearest occupant. (Inkwell optional as an accessory.)

Universal Seat Swivels 45° either way to silent, cushioned stops, reducing body torque from right or left hand and eye preferences; also provides easy ingress and egress. Long-life swivel bearing (area, approx. 9 sq. in.) and means of its adjustment, insure permanently smooth operation. Deep-curved back with self-adjusting lower rail to fit each occupant, and plywood cradleform posture seat with no rearward elevation, promote relaxed sitting and freedom to perform.

Universal Frame — Connecting member of one-piece heavy steel tubing provides maximum durability with minimum weight, for easy moving. Fluted foot-rest minimizes marring of finish. Solid metal glides, 1½ inches in diameter; rubber shoes available. One-piece, rounded, never-failing clamps for height adjustment of seat and book-box.

Wood parts of No. 434 desk lacquered in L-31 light, natural-wood finish. L-48 school brown also available, on special order. Metal parts dipped in E-286 beige enamel and baked. Plywood tops, seats, back rails bonded with hot-press, urea-resin adhesive, for strength, moisture-resistance.

DIMENSIONS FOR No. 434 DESK

Size	Grade	Seat Height (inches)	Desk Height	Net Over-all Front to Back[1]	Desk to Back[2]	Seat Depth
C	I-III	11½-15½	23-28	29¼	9 & 10	11
B	II-VI	11½-15½	23-28	30¼	10 & 11	12¼
A	V-Adult	14 -18	26-31	30¾	11 & 12½	14

[1] Near position. (Seat swiveling adds approximately 1 inch.)
[2] Sitting space. Both spacings provided for in seat construction.

UNIVERSAL PEDESTAL DESKS

Study-Top and Lifting-Lid Types

- **No. 406-1 Desk — 32¼" high**
- **No. 406-2 Desk — 31¼" high**
- **No. 406-3 Desk — 30¼" high**

Particularly adapted to use in senior high-school classrooms and study halls when fixed-to-floor desks and chairs are wanted.

DESIGNED with the same features of balanced posture, comfort and durability as are built into American Universal Desks Nos. 435 and 434, but with fixed pedestals having 12-inch floor base under desk, 10-inch under seat. Offset-base desk pedestals provide generous knee and leg room. One-piece, rounded, never-failing height-adjustment clamp under chair seats.

The working surface of tops is 18 x 23¾ inches. The cradleform posture seats have deep-curved back with self-adjusting lower rail to fit each occupant. Seats swivel 45° either way, to silent, cushioned stops, reducing body torque from right and left hand or eye preferences; also provides easy ingress and egress. Adjustable in height from 14 to 17 inches. Desk tops, seats and backs are of plywood bonded with hot-press, urea-resin adhesive. Wood parts lacquered in L-31 light, natural-wood finish; also L-48 school brown on special order. Metal parts dipped in beige alkyd-urea enamel and baked to a smooth, hard finish.

Study-Top Desk (above) — For use where a book-box is not required. Handy book-rack (as illustrated), attached under chair seat, is available if wanted. Rigid top is trimmed with rounded-edge metal apron. Writing surface has 10° slope of 2½ inches. Furnished in seat size "X," measuring 15½ x 17½ inches.

Lifting-Lid Desk (right) — Has roomy, one-piece steel book-box with smooth, rounded lines and contact surfaces inside and out; round-rolled edges. Lid is used in either level or 10°-sloped writing position. The non-slam friction control is adjustable and quiet. Full-length pencil tray along inside of edge nearest occupant. (Inkwell is available as an optional accessory.) Furnished in seat size "A," 14 x 16½ inches.

No. 406 Study-Top Desk

No. 406 Lifting-Lid Desk

STUDY-TOP DESK No. 435

THE American Universal No. 435 is a correct-posture desk with abundant knee and leg room, for use where a book-box is not required. Handy book-rack, attached under seat (as shown on No. 472 seat) is available if wanted. The No. 435 is recommended for high-school classrooms, study halls, and rooms provided with individual lockers. Strong, durable, light in weight, economical and attractive.

The working surface is identical with that of No. 434 Universal Desk: 18 x 23¾ inches, with good-posture, 10° writing slope of 2½ inches. Rigid study-top is trimmed with rounded-edge metal apron. American Universal cradleform posture seat with deep-curved back; lower rail is self-adjusting, to fit each occupant. Seat swivels 45° either way, to silent, cushioned stops. Furnished in large seat size "X," only, 15½ x 17½ inches. Height adjustments for seat and book-box.

Metal parts finished in dipped, baked, beige enamel. Plywood seat, back rails and desk top bonded with hot-press, urea-resin adhesive; durable lacquer finishes as described on No. 472 seat.

TABLET-ARM CHAIR No. 472

DESIGNED for balanced posture and comfort. Has cradleform posture seat, 17 inches high, and solid, deep-curved back. The tablet-arm, 23½ x 12 inches, is at the proper height and slope for writing comfort. Oval-shaped, rigid, steel pedestal has 9 x 11½-inch base. The tubular-steel arm support has die-formed top and bottom brackets, shaped to provide two-way triangular bracing longitudinally and laterally, with brackets encircling the columns and solidly welded.

This unit is furnished with large, university-size "X" seat, 15½ inches deep and 17½ inches wide. Supplied with or without book-rack.

All metal parts have dipped, baked-enamel beige finish, alkyd-urea type. The plywood seat, back rails and arm are bonded with hot-press, urea-resin adhesive; beautifully, durably lacquered in L-31 light, natural-wood finish; also in L-48 school brown, on special order.

Also available is **Chair No. 471** with open back and self-adjusting lower rail, as shown on chair at left.

American Universal Desk No. 435

Universal Pedestal Tablet-Arm Chair No. 472

PROGRESSIVE TABLES

AMERICAN Progressive Tables make classroom units of pleasing, modern design, and durable construction. The strong plywood tops are bonded with hot-press urea-resin adhesive; corners and edges are rounded; finely lacquered in L-31 light, natural-wood finish, with 30% to 55% light reflectance in conformance with the now generally accepted principles of brightness ratios. Embossed steel end and side panels, and graceful oval-shaped steel standards are dipped in beige, alkyd-urea enamel and baked to a smooth, hard finish.

Flanges connect large-capacity book-box with the standards, insuring great strength, with rigidity and durability beyond all requirements. The underside of the book-box is smooth and free of structural projections; screw heads are countersunk and all edges are rounded — no scratching or tearing hazards.

Excessive movement of chairs, necessitated when ordinary, four-post tables are used, is largely eliminated with the use of American Progressive Tables.

No. 328 with "Ten-Twenty" Book-Box — (shown above) —Large top, 20¼ x 24 inches, is quickly positioned at 20° slope for greatest ease of reading, writing and drawing, or 10° slope where lesser slope is wanted; also level for manipulative tasks. Has Universal "Ten-Twenty" one-piece book-box. Pencil tray inside front edge. Inkwell is an optional accessory. (For complete descriptions of this top and book-box, see page on Universal "Ten-Twenty" Desk No. 436.)

No. 228 Open-Box Type — Has stationary top, 18 x 23¾ inches. Inkwell is available on special order only.

No. 324 with 434-Type Book-Box—Has 18 x 23¾-inch top as described on No. 434 Universal Desk, usable in either level or 10°-sloped position. Pencil tray inside front edge. Inkwell is an optional accessory. (For complete description of book-box, see page on Universal Desk No. 434.)

Available Heights (tops in level position) — 21, 23, 25, 27, 29 inches. (Available chair sizes — 11, 13, 15 and 17 inches.)

No. 328 with "Ten-Twenty" Universal Book-Box

No. 228 Open-Box Type (Chair is Envoy No. 368)

No. 324 with 434-Type Book-Box

Envoy Chair
No. 368

AMERICAN
Envoy
CLASSROOM SEATING

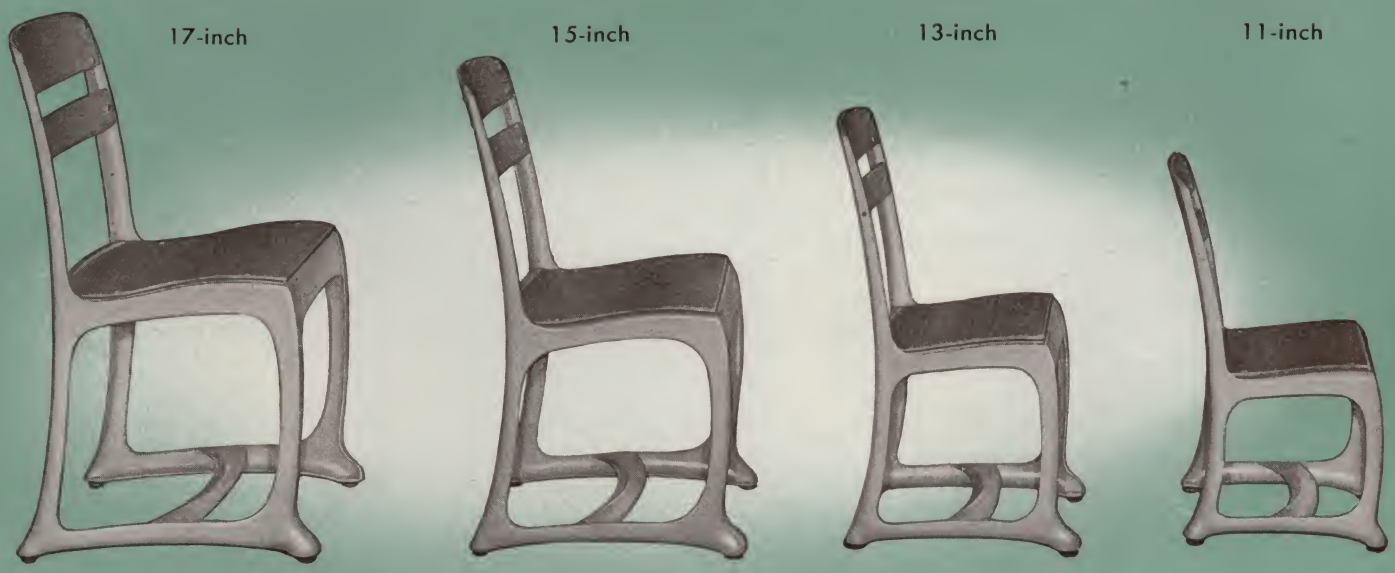
THE American Envoy Line combines functional beauty with posture, comfort, lightness, durability and economy. Constructed to withstand years of severe classroom usage. The monosteel side frames provide great strength at points of greatest strain — cross-members joined to frame by multiple welds — rivet troubles and squeaks eliminated by the rigid construction and absence of joints. Relaxed posture attained by formed seats and deep-curved backs, with self-adjusting lower rail to fit each occupant.

Edges of seats protected by the smooth steel frame which extends beyond side and front edges. Rear edge of seat follows the round of back rails and is housed in steel frame.

Steel parts dipped, baked-enamel beige finish, alkyd-urea type. Seats, backs, arms and desk-tops of plywood, bonded with hot-press, urea-resin adhesive; lacquered in L-31 light, natural-wood finish; also in L-48 school brown, on special order. Hardened-steel, silent, rubber-cushioned glides on all units.

ENVOY CHAIRS No. 368

A light-weight, streamlined, all-purpose chair with remarkable strength — 11-inch size weighs less than five pounds! Envoy chairs are particularly satisfactory for regular use with tables, are convenient for grouping and supplementary activities. Also used in school libraries, cafeterias, dormitories. Available in four seat heights listed below.



New perfection in posture and comfort are attained by the deep-curved back rails on American Envoy Chairs and Desks — self-adjusting lower rail with silent pivoting device fits each occupant.

TABLET-ARM CHAIRS

No. 380 Envoy — An exceptional value in the low-priced tablet-arm-chair field. Equipped with sanitary, roomy book compartment. The 23½ x 12-inch tablet-arm slopes 3½ inches within its length, adding further postural comfort. Rigid, formed-steel arm support, securely attached to frame, presents smooth, rounded contact surface. Made in 17-inch seat height, only. (Addition of enclosure-panel at right side of occupant is an optional accessory.)

No. 378 Envoy (not illustrated) — Like No. 380, but without book compartment.

ENVOY DESK No. 362

The American Envoy No. 362 is a popular, light but strong desk. It is quiet, durable, comfortable and attractive in design. Tubular support and never-failing clamp provide quick, practical height-adjustment of the desk-top by the loosening of a single bolt. The top has a 10° slope for more-comfortable reading and writing. Heavy-gauge front stile and method of attaching the tubular support afford great strength and rigidity.

The American Envoy Desk is available in three seat heights: 17, 15 and 13 inches; corresponding top sizes are 15 x 22, 14 x 20 and 13 x 18 inches. This desk is regularly equipped with open book-compartment as shown.

Enclosure-panel on occupant's right is an optional accessory, as is also a swinging inkwell bracket.

DIMENSIONS FOR ENVOY DESK

Seat Height	Grade	Desk Height	Total Length	Desk to Back	Seat Depth
13"	II and III	22⅜" - 25⅜"	22⅞"	8¾"	10¾"
15"	III-V and many in VI	25¼" - 28¼"	25⅝"	10⅛"	13¼"
17"	VI-Adult	28⅝" - 31⅝"	28½"	12⅛"	14⅞"

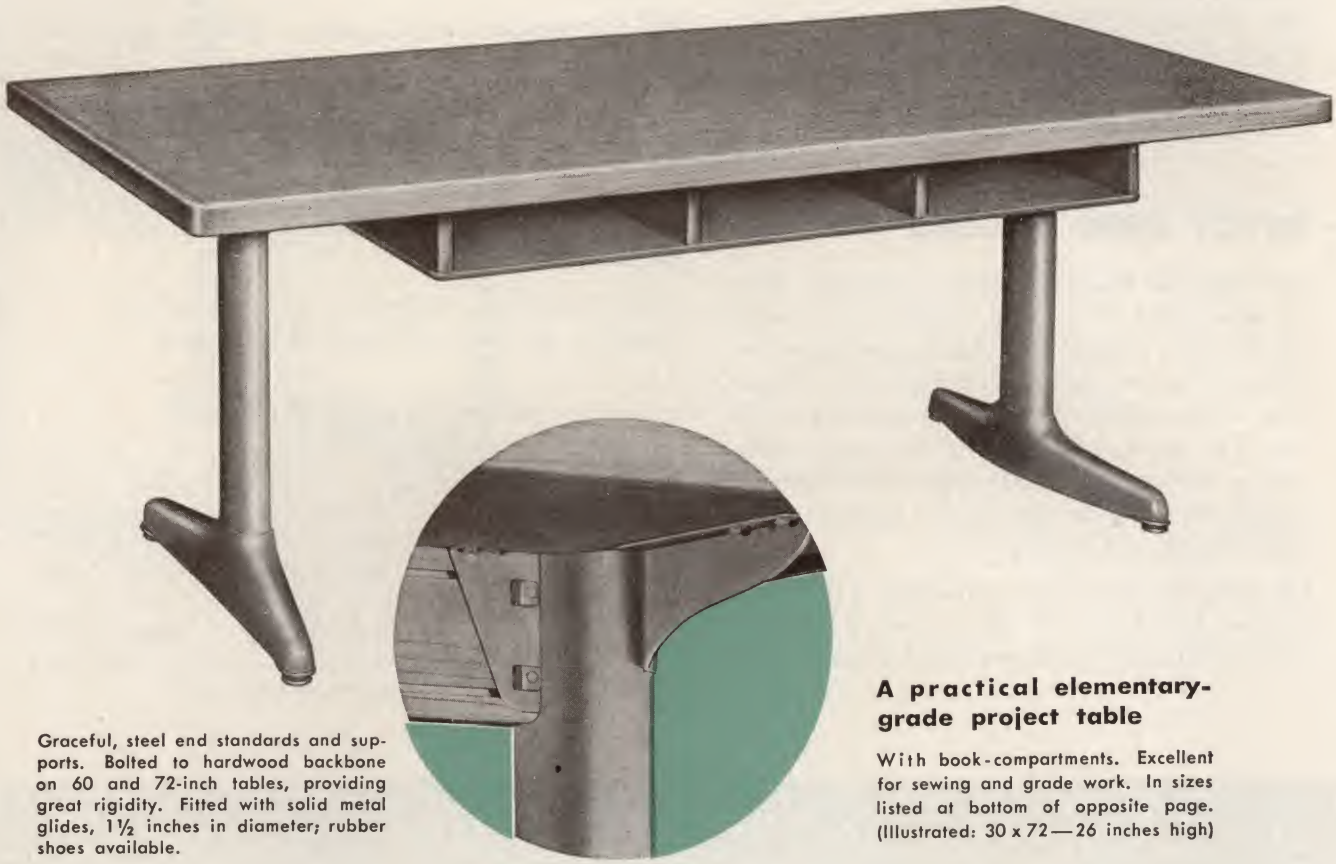
American Envoy Seating is covered by patents and patents pending.

Tablet-Arm Chair No. 380

Envoy Desk No. 362

All-purpose tables of outstanding appearance and serviceability

For Kindergarten through High School and College. Also for Cafeterias, Offices, Libraries, Sunday Schools.



Graceful, steel end standards and supports. Bolted to hardwood backbone on 60 and 72-inch tables, providing great rigidity. Fitted with solid metal glides, 1½ inches in diameter; rubber shoes available.

A practical elementary-grade project table

With book-compartments. Excellent for sewing and grade work. In sizes listed at bottom of opposite page. (Illustrated: 30 x 72—26 inches high)

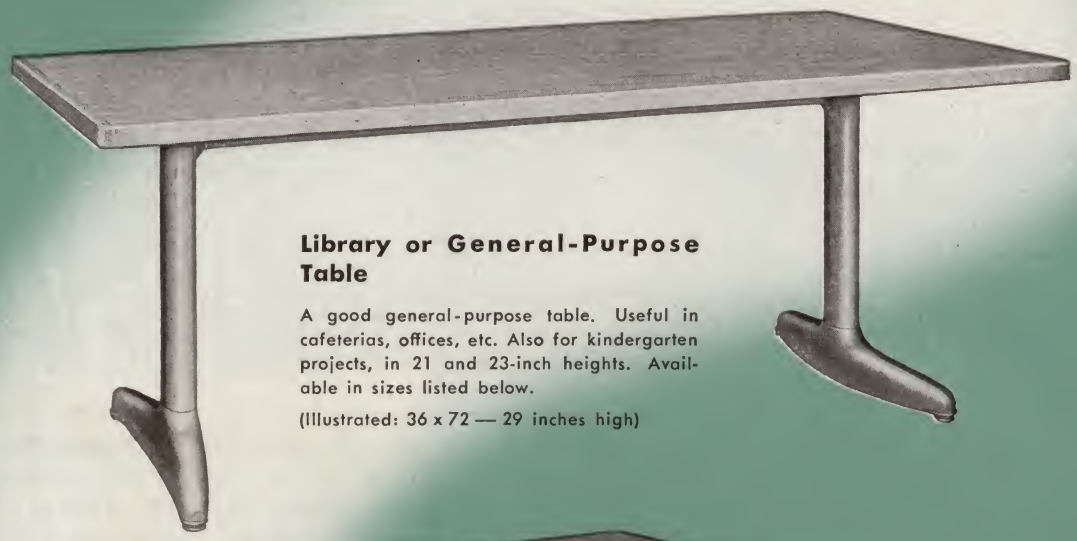
IN THE fine-furniture class at school-budget prices, American Universal Tables are exceptional values — in excellence of design, grain and finish, and in maximum strength and rigidity, insuring long service under severe usage.

Tops are heavy, cored-plywood construction, bonded with hot-press, urea-resin adhesive for maximum strength and moisture-resistance; unaffected by varying temperatures. Protected and reinforced by tongue-and-groove hardwood framing — superior to solid construction of equal thickness, and offering incomparably greater resistance to warping, checking, splitting, or other deterioration. No corner legs, stretchers or other structural parts to interfere with knees.

Strong plywood book-compartments are optional on all sizes, on either or both sides. *Wood parts durably finished in high-grade lacquer; end standards dipped in E-286 beige enamel (special-formula, alkyd-urea type) and baked to a smooth, hard finish.

*Regularly furnished in L-31 light, natural-wood finish, with 30 to 55% reflectance. L-48 school-brown finish is also available, on special order.

American Universal Tables are covered by patents and patents pending.



Library or General-Purpose Table

A good general-purpose table. Useful in cafeterias, offices, etc. Also for kindergarten projects, in 21 and 23-inch heights. Available in sizes listed below.

(Illustrated: 36 x 72 — 29 inches high)

Showing leg-flange construction on all 48 and 54-inch tables.

Table with Steel Drawers

In 21 x 54-inch size only. Two steel drawers, each 3½ inches deep, and 15 inches wide by 12 inches front to back. The 21 and 23-inch heights make excellent kindergarten tables. (The two-compartment steel cabinet is also available *without* drawers.)

TOPS	HEIGHTS				
*21 x 54	21	23	25	27	29
24 x 48	21	23	25	27	29
30 x 60	21	23	25	27	29
30 x 72	21	23	25	27	29
36 x 72	21	23	25	27	29

When book-compartments are specified, two-compartment unit is supplied for 48-inch table, three-compartment unit for 60-inch and 72-inch tables.

**Special, with steel cabinet, as described above.*

Two-Pupil Classroom Table

Classroom table, with two-compartment plywood book-rack. Also for dormitories. Chairs are Envoy No. 368. (Illustrated: 24 x 48 table — 29 inches high.)

New! UNIVERSITY-TYPE PEDESTAL TABLES — FOR LECTURE ROOMS, ETC.

Universal Fixed-Pedestal Tables and Chairs in one of lecture rooms in State Hall, Wayne University, Detroit, with angle joints and radial arrangement.

Showing simple but sturdy pedestal-flange support of angle joints.

American Pedestal Chair No. 406 provides perfect seating for Universal Pedestal Tables in either straight or radial rows.

Each four-foot table section is provided with two chairs designed with the same features of balance, posture, comfort and durability as are built into the tables. The cradleform posture seats have deep-curved back with self-adjusting lower rail to fit each occupant. Seats swivel 45° either way, to silent, cushioned stops. Adjustable in height from 14″ to 17″.

COLLEGE and university authorities report unqualified satisfaction with the new American Universal Angle Pedestal Tables and Chairs — a combination that offers these advantages not found in other lecture-room furniture:

1. *All students can see the instructor.*
2. *The instructor can see all students.*
3. *Cleaning around pedestals is easily, quickly done.*
4. *Fixed-to-floor furniture prevents disarrangement in lecture rooms and study halls, maintains clear passageway between chair backs and tables in rear of chairs.*
5. *Swivel chair seats provide greater freedom to perform, besides easy ingress and egress.*

THESE new, sturdy, beautiful tables are ingeniously designed to provide continuous working surfaces in straight rows or on radial arcs across the entire lecture room. Individual tables, approximately 48 inches long, and 16 to 24 inches wide and 29 inches high, can be trimmed slightly on the ends to accommodate the arc or angle required, securely joined and dowelled to each other, and bridged by pedestal supports. The offset, steel pedestals provide ample knee and leg room, and are permanently fastened to the floor, under the supervision of American Seating Company installation engineers. Tops are heavy, cored plywood, bonded with hot-press, urea-resin adhesive for maximum strength and moisture-resistance; protected and reinforced by tongue-and-groove hardwood framing, insuring long service under severe usage.

Table tops, as well as the chair seats and backs, are of plywood, bonded with hot-press, urea-resin adhesive. Wood parts lacquered in L-31 light, natural-wood finish; also L-48 school brown on special order. Metal parts dipped in E-286 beige alkyd-urea enamel and baked to a smooth hard finish.

Architects and school officials are invited to request specific information regarding installations of this type of seating. Practical for large or small rooms, with or without floor risers. High in favor with faculty, students and janitors.

The American Diffusor Provides Ideal Solution to Daylighting Problems

THE illustrations above show how a single improvement, the American Daylight Diffusor, can go a long way towards converting to a co-ordinated classroom. Note relief from harsh lighting and from poor posture, in view at right.

Poorly co-ordinated classroom factors lead children beyond the maximum tolerances for certain physiological stresses — can warp their growth, arrest their development, and disturb their well-being.

One of the important factors to be considered in proper planning is the distribution of light *throughout* the classroom and on the task. A properly designed daylight-control device at window will redirect the greater part of light upward and into room, provide for some horizontal direct light and some downward diffused light. This adequately solves daylight problems of glare, high contrast, excessive diversity, and improper three-dimensional modeling shadows.

Scientifically designed and tested in American Seating Company's research and testing laboratories, the Daylight Diffusor softens sky glare by reducing upper-window brightness *80 per cent,* without sacrificing working light. It reduces the light-diversity ratio from 1:8 to 1:2½.

This new Daylight Diffusor embodies many improvements, including ease of assembly, and incorporates a feature whereby the woven-glass-cloth diffusor curtain is suspended between two tubes, one inserted in hem at top, the other in hem at bottom. Curtain is clipped to sturdy metal diffusor bow which is secured to the wall by a hanger. Rugged construction and trouble-free design make American Diffusors easy to install by custodians. Detailed installation and laundering instructions included with shipments.

• Softens glare • Spreads light • Lifts light • Reduces shadows • Provides optimum lighting conditions • Permits informal curriculum arrangements • Requires no adjustment.

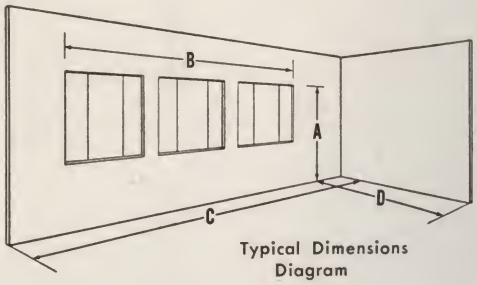
Only these simple data are needed for your installation requirements:

1 — Fill in dimensions of classroom on a diagram like below.

2 — State number of windows.

3 — Give location and size of any obstruction extending into room over 6″ at a height above 6′.

4 — Type of windows (certain non-standard windows not suitable). Southern exposure with clear horizon requires denser curtains.



Typical Dimensions Diagram

(1) From foregoing, determine: the number, for each room, of 4′ and 3′ lengths which, combined, will total length of entire window stand plus 3′ (allows for 18″ overhang each end). On west and southwest exposures, add more for overhang.

If distance from floor to window top is less than 10′6″, use single tier of diffusors. If more, use double tier.

(2) Specify number of hangers (based on 1 for each window, plus 1, for each tier) required for attachment to each type of support listed below. Attaching hardware will be furnished for mounting on:

.....wood window frames. .....metal window frames (give details).

.....concrete, brick, cinder block, hollow tile.*

.....plaster wall over wood studding.*

**Please make a sketch of wall-construction cross section.*

(3) Be sure to multiply by 2 for *double tiers.*

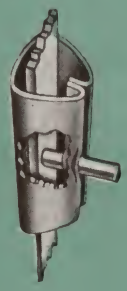
ENTER TOTALS, ACCORDING TO EXPOSURE, ON YOUR USUAL REQUISITION, AND MAIL TO US WITH YOUR SKETCHES.

All-Purpose TUBULAR-STEEL CHAIRS

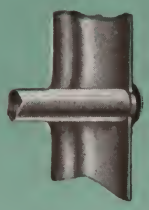
For Auditoriums, Cafeterias, Libraries, Assembly Halls, Gymnasiums, Dormitories, Offices, Clubs, Chapels, etc.

No. 54
Plywood Seat

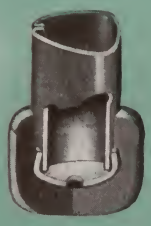
1 Back panel is die-formed from one piece of steel, inserted and welded into the tubing. Bottom edge is rolled for rigidity and smoothness.



2 Hinge section, showing shape of tubing, with solid reinforcing bar within tube. Bar extends 4" above and 7" below hinge rod, distributing load at point of stress.



3 Solid-steel cross-braced construction resists load from any direction. Ends of rods are shouldered against the inside face of tube and securely riveted, for maximum rigidity.



4 Spherical, heavy drawn-steel glides crimped around circumference of leg — no welding necessary. Replaceable molded-rubber shoe, securely held in place by foot glide — won't mar or mark floor.

THE new, improved American "Folding Fifties" present a trio of strong, handy chairs for many uses — in cafeterias, gymnasiums, auditoriums, assembly halls, waiting rooms, libraries, dormitories, offices, clubs, hospitals, chapels, factories, households. Designed for even greater comfort than their predecessors, the famous "Forties." Have wider, deeper, shaped seats; wider and deeper, formed back panels. No sliding or binding parts — no snagging, pinching or soiling hazards. Fold quickly, quietly, compactly, and are silent in use as well. *Can't* tip forward. Light — easy to carry and to store.

A single length of triangular tubing forms sturdy frame; front legs *reinforced* at hinge. Solid-steel cross braces add further rigidity. Back panel is inserted and welded into the tubing. Long-life, replaceable rubber shoes cannot injure finest floors. Metal parts have dipped, baked, beige-enamel finish (except for tan enamel on back panel of No. 56, to match the seat upholstery).

SPECIFICATIONS

Frame and Rear Legs: 20-gauge, cold rolled into triangular-shaped tube.

Back Panel: 7½" deep. Formed steel, inserted and welded into tube of the frame.

Seats: See below for descriptions.

Feet: Heavy, drawn-steel glides, with replaceable molded-rubber shoes.

All metal parts are dipped in special-formula, alkyd-urea-type enamel, and baked to a smooth, hard finish.

Folded Dimensions: 36 x 18¼ x 2¾" thick — 2½" when stacked.

No. 54 Plywood Seat — Has formed hardwood seat, 15⅜" wide, 15⅜" deep, of 5-ply, 5/16" urea-resin-bonded birch plywood, edges rounded; stained light walnut and durably lacquered. Net wt., 13 lbs.; 6 in carton, 80 lbs.

No. 53 All-Steel — Has shaped posture seat, 15½" wide, 15¼" deep, with edges rolled under and reinforced. Especially adapted for general, rugged use indoors or out, including stadiums, fairs, camps, etc. Net wt., 14 lbs., 6 in carton, 86 lbs.

No. 56 Upholstered Seat — Formed plywood seat is padded, and upholstered in luggage-tan Amseco vinyl plastic; metal housing around front. Matching tan enamel back panel. Seat 15½" wide, 15½" deep. Net wt., 15 lbs.; 6 in carton, 92 lbs.

WHEEL DEVICE FOR MOBILITY (not illustrated) — Rubber-tired wheel clamped to legs, for rolling chairs to storage or new locations.

No. 53 All-Steel

No. 56 Upholstered Seat

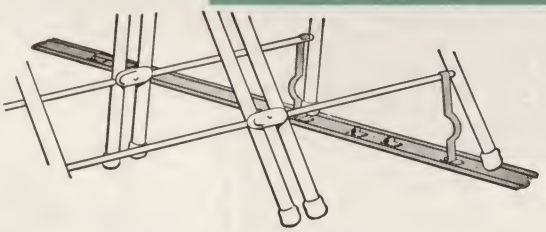
Clamps for Sectional Grouping

Neat, all-metal clamps for uniting "Folding Fifties" in sections of two or three, 1 inch apart.

STEEL THRESHOLD —

Permits the locking of tubular-steel folding chairs into position at the ends of rows, separating rows 30" back to back. In sections to accommodate three rows. The method of clamping (see illustration) consists of use of spring-steel hooks which snap over lower front and rear stretchers of chairs. Bottom of these hooks is hinged to holders welded to threshold for this purpose.

Tests and service have proved this lock efficient and permanent; yet the hooks can readily be unsnapped when so desired. This type of threshold differs from most of thresholds in common use, in that the end chairs need not be special.



AMERICAN ALL-STEEL

Storage Trucks

SAVE... TIME... MONEY... CHAIRS

AT LAST! New ease and safety in moving and storing folding chairs, for those who want complete, multiple use of their assembly areas. Time and labor costs are becoming increasingly important!

These handy, compact trucks are designed for efficient loading and unloading — make quick-change artists of your maintenance crew. Require minimum storage space. Inclusion of 3½″ self-lubricated swivel casters and wheels makes steering easy. Rigid-steel construction withstands rough usage and assures long life without distortion. Finished in baked, beige enamel (special-formula, alkyd-urea type).

Truck No. 7

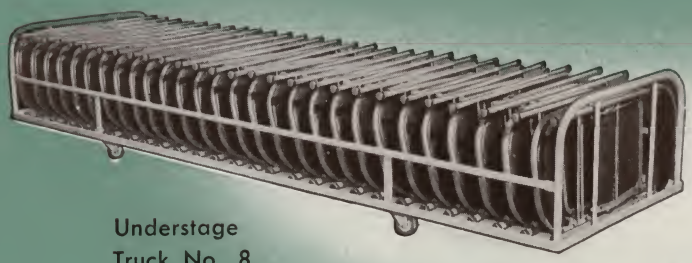
Removable pegs fit into holes punched at intervals along bottom of channel-iron frame, to permit upright partial loads in this rugged, 8-foot truck. Fixed wheels in the middle, and pairs of swivel casters at ends, with adequate clearance, provide maximum mobility; rubber-tired. Removable ½″ tubular handles provide leverage and chair support. Truck is readily knocked down for storage. Capacity, 42 chairs. Dimensions, 19$^{3}/_{16}$″ wide, 96½″ long, 41⅜″ high when loaded. Net weight, 70 lbs.

Understage Truck No. 8

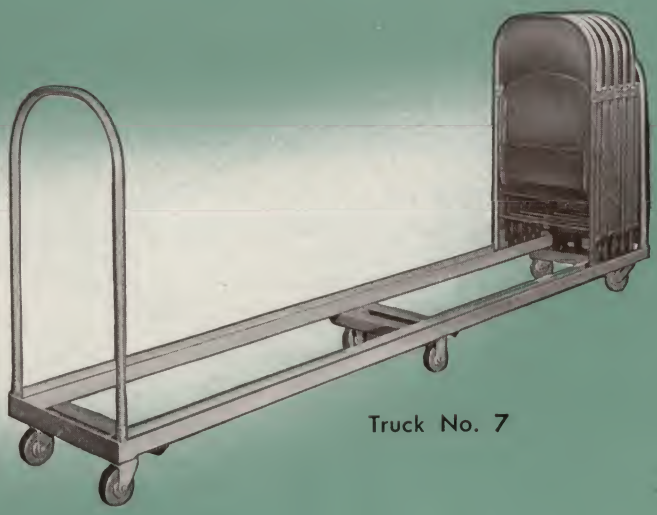
For handling and storing chairs understage when other space is limited. Equipped with two fixed wheels and two swivel casters, rubber tired. Capacity, 52 chairs. Dimensions, 38″ wide, 132″ long, end rail 24″ high from floor. Net weight, 140 lbs.

Angle-Iron Peg Devices

Special angle-iron peg devices for maintaining upright position of partial load. Eliminate damage of spilled loads. Provide easy means for handling less than 42-chair capacity. Pegs fit into bottom of channel-iron frame.



Understage Truck No. 8



Truck No. 7

PORTABLE ASSEMBLY CHAIRS FOR MULTIPLE-USE SEATING AREAS

Versatile, Practical, Comfortable, Sturdy, Dependable

SCHOOL auditoriums and gymnasiums now may have the advantages of permanent seating, with the added value of portability, permitting multiple use of these or any other area — thus doubling its value as a gathering place. American Portable Assembly Chairs, built in permanent sets of two or more, make this possible. Years of trouble-free service under severe usage insure their practical, dependable performance.

Foremost in the construction of these chairs is the sturdy, hazard-proof construction of the frames. They are made from the finest laminated hardwood, reinforced at the corners with steel angle braces to insure greater durability, with smooth, silent functioning of all movable parts. Metal seat hinges are securely fastened and constructed for raising and lowering the seats thousands of times with silent mechanical perfection, and without binding. Floating leg-hinges provide stable foundation, without any teetering, even on the most uneven floors.

Seats are of the famous American spring-arch construction, padded comfortably and covered with Amseco long-lasting vinyl-plastic-coated fabric. Steel seat bottoms are streamlined and snag-proof.

Deep-curved, five-ply hardwood backs are securely fastened to frames. Upholstering on front panel is optional. Wood parts in L-89 light walnut finish; metal parts dipped in beige enamel and baked to a smooth, hard finish.

For additional safety, aisle thresholds, devised to insure uniform spacing between rows, and to eliminate haphazard alignment, are available in varying lengths to fit your specific row-spacing. Easily bolted into place. Also, leg clamps, for maintaining straight unbroken rows, are swiftly and easily locked into position by ingenious latching device. Easily removed for quick chair storage.

Assembly Chair No. 531 — Has deep-curved five-ply hardwood plywood back, without upholstery. Set of two chairs, 38½ inches wide, 32½ inches high, 26½ inches front to back, 6½ inches thick when stacked. Seat 17 inches wide, 18 inches deep.

Assembly Chair No. 533 — Same as No. 531, except for additional comfort of padded, upholstered front panel. Measures 7 inches thick when stacked.

Assembly Chair No. 531

Assembly Chair No. 533

Folded for Storage

Bodiform 16-001
With 123 End

No. 16-004
With 117 End

A comfortably seated school auditorium commands respect, multiplies attendance, enhances interest and enjoyment in programs, and becomes the center of community life and pride.

AMERICAN Bodiform RESTFUL CHAIRS

A few of many Bodiform school-auditorium installations: Holyoke High School, Holyoke, Mass.; Michigan State College, East Lansing, Mich.; Franklin Delano Roosevelt High School, Hyde Park, N.Y.; Lincoln School, Taft, Calif.; Kenmore Senior High School, Kenmore N.Y.; Findlay High School, Findlay, Ohio; University of Minnesota, St. Paul; Glendale College, Glendale, Calif.; La Grange High School, La Grange, Ga.; Crane Independent School Dist., Crane, Tex.; Cardinal Spellman Auditorium, Tarrytown, N. Y.

Zenith 14-501
With 109 End

Bodiform Table-Arm Chairs
No. 16-001TA with 123 End

American Auditorium and Stadium Chairs covered by patents and patents pending.

UPHOLSTERED CHAIRS

MORE and more high schools and colleges are turning to this most modern development in fixed auditorium seating. In addition to their streamlined beauty and great durability, American BODIFORM Theatre and Auditorium Chairs provide maximum comfort, through scientific contours and controlled resiliency. They introduce improved, hazard-proof construction, and insure great durability with smooth, silent functioning of all movable parts. More room for sitting and for passing, with greater housekeeping economy. BODIFORM employs use-tested automatic ¾ safety-fold action, and concealed, self-aligning, self-lubricating hinge construction. Improved method of upholstering eliminates tacks — damaged upholstery quickly replaced by custodian. Seat is full upholstered, with spring-arch construction.

Bodiform No. 16-001—Can be supplied with either 123 or 117-style end standard; with or without aislelight.

No. 16-004 — Has *metalclad and upholstered plywood back; available with either 117 or 123 end standard, and with or without aislelight.

No. 16-034 Semi-Upholstered (not illustrated) — Same as 16-004 except without upholstery over the plywood back.

Zenith No. 14-501 — An incomparable value in low-priced, attractive, comfortable auditorium chairs. Back deep-curved. Full upholstered, with soft front and spring-arch seat construction. Seat covers are quickly replaceable by any custodian, without tacks or delay. Available with or without aislelights.

TABLET-ARM CHAIRS (Bodiform)

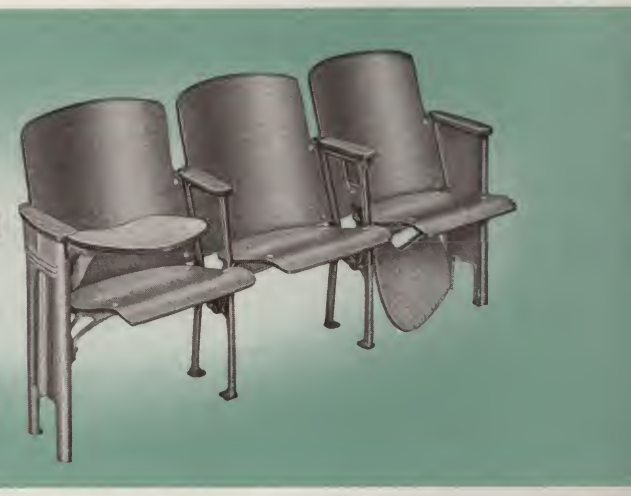
DOUBLE-purpose chairs, combining auditorium and lecture-room utility with BODIFORM comfort and beauty. Adequate writing surface slightly pitched for greater writing efficiency. Tablet-arm immediately accessible for taking notes; automatically and safely folds under seat when not needed. The ends are furnished with or without aislelight.

*An extruded aluminum channel molding, forced into the wood under hydraulic pressure.

PLYWOOD CHAIRS

No. 11-152 — A dependable auditorium seating unit in fine quality and artistic taste. Deep-curved 5-ply back, 5-ply formed plywood seat, silent ball bearing hinges and securely attached solid arm-rests. American's high standards of plywood manufacture — superior workmanship, materials and finish—and rigid testing and inspection policy, insure an exceptional value in this chair. Aislelight is not available.

No. 11-152 Plywood Auditorium Chair With No. 103 End



Typical arrangement of No. 11-152TA Chairs with 124TA Tablet-Arm End

TABLET-ARM CHAIRS

No. 11-152TA with 124TA End — Extra-large, slightly pitched drop-leaf tablet-arm is rigid when in use. Folds automatically under seat when occupant rises—safe in case of panic. Can be raised or lowered while occupant is seated. End standard is furnished with or without aislelight.

To assist you with your floor-plan layouts, our specialized seating engineers are available without obligation to you, your architect or your engineers, upon request. We invite you to use this service.

★ ★ ★

Typical Stadium Installations—Duke University (indoor stadium): Western Ill. State Teachers College (auditorium), Macomb, Ill.; Peterson School Gymnasium, Rockford, Ill.: University of Utah; Edison Institute (recreation bldg.), Greenfield Village, Dearborn, Mich.; University of Colorado; Cardinal Hayes Memorial High School, New York; Sam Houston State Teachers College (Greek Theatre), Huntsville, Tex.; Nevin School Auditorium, South Weymouth, Mass.; School Auditorium, Bd. of Public Education, Savannah, Ga. (Also in 12 of the 14 major-league ball parks — and in many sports arenas throughout the country.)

STADIUM CHAIRS (illustrated below)

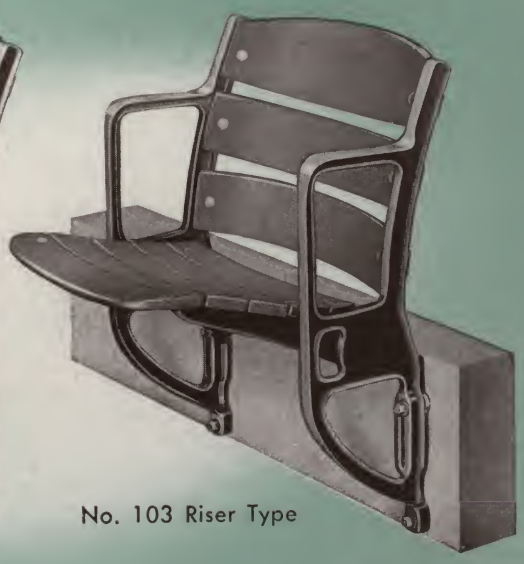
DESIGNED for comfort through long hours of sitting, with maximum eye-appeal and economical long life. Rigid, sturdy construction withstands severest use by unrestrained audiences.

No. 103 Riser Type — Standards attached to riser, freeing the tread of hazardous obstructions — more room for passing, faster cleaning. Cradleform seat and deep-curved back, both steam-bent, provide extra comfort. Sturdy iron standards resist strains, hard usage. Two-point-bearing adjustable riser attachments compensate for structural irregularities. Ball-bearing seat hinge is quiet, balanced in action. All metal parts smoothed and durably finished in baked enamel over a rust-inhibitor.

Backs have three wide slats, of heavy, solid wood with ends fully housed and bolted to standards. Five heavy, solid-wood slats form the seats; slats are separated by steel spacers, reinforced with two steel-rod dowels and bolted to seat arms. Wood finished with fungus-resisting preservative and durable, force-dried sage-green enamel; metal parts in beige baked enamel. Chairs may be finished in any other standard colors, upon request. All hardware is treated for rust-resistance.

No. 93 Floor Type — Identical with the riser type, except has legs, as illustrated.

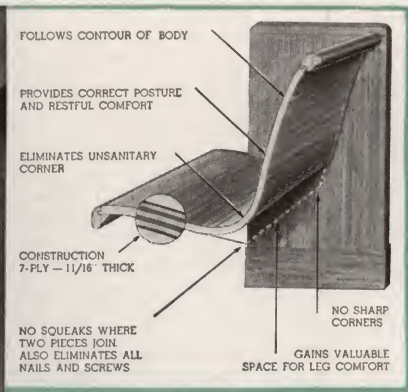
No. 93 Floor Type



No. 103 Riser Type

American Chapel Furniture, Class Memorials

Flossmoor Community Church, Flossmoor, Ill. Architect: Hugo C. Haeuser, Milwaukee, Wis.



BODIFORM ONE-PIECE PEW

Call on our Church Furniture Designers for help in developing chapel and church furniture ideas to fit any budget. Their services are supplied without any obligation.

CHAPEL and CHURCH FURNITURE

Pulpit and Communion Sets, Chancel Furniture, Pews, Speakers' Stands

CHARACTER, once established, becomes an obligation and must be maintained. Character is what American Seating Company has been building for decades — character in product and personnel. In consequence, we can offer products of skilled craftsmen and a modernly equipped plant, the combination of which makes possible fine furnishings for chapel and church at reasonable cost.

Among these products are the American Bodiform one-piece pew, combining postural comfort, beauty and durability. See the unique structural features of this pew illustrated at upper right.

The No. 10026 speaker's stand illustrated at right makes an excellent class memorial.

The top panel provides ample space for class inscription. As a gift, it reflects the good taste and judgment of the group that presents it. There is a need for such a stand in every auditorium. Made of selected birch, beautifully and durably lacquered. Has open back, with two shelves. Over-all dimensions: 24 inches wide, 16 inches deep, 44 inches high. The lamp is optional. Shipping weight, 100 lbs.

SPEAKER'S STAND
No. 10026

Complete 48-page catalog of church furniture is available upon request — write for your copy.

Form 6074C-069-187M. Printed in U.S.A.

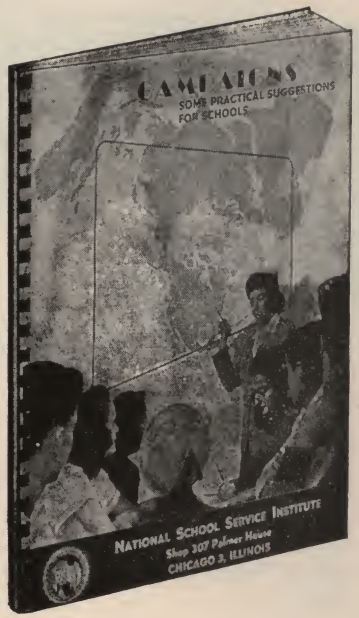
PARTNERS OF EDUCATION

SCHOOL OFFICIALS
and
NATIONAL SCHOOL SERVICE INSTITUTE

There is a distinct partnership of interest between the educators of America and the National School Service Institute, a non-profit service organization, of which our company is a member. Both of us want to help in the upbuilding and expansion of the educational system in every locality of the state and nation,

BECAUSE—

EDUCATION raises Living Standards
EDUCATION increases Earning Power
EDUCATION is the Bulwark of Democracy
EDUCATION expands Productivity
EDUCATION lessens Delinquency and Crime
EDUCATION is the Hope of America



Our joint effort should be to acquaint all citizens of the true facts that money for school taxes is not an "assessment" but an "investment" which pays handsome dividends to everyone.

We have available several dynamic aids and methods for this purpose which are described below:

PUBLICATIONS

"THE PUBLIC RELATIONS PRIMER" Explains how to organize and sell the school to the citizens of a community.

"CAMPAIGNS" Generously illustrated successful campaign pieces. Accent on timing.

"JUST A SECOND" The most effective opinionnaire the use of which practically assures success in any school campaign.

"BARGAIN DOLLARS" Enumerated benefits which every type of citizen receives from education.

"WORDS MAKE THE DIFFERENCE" A glossary of Educational Public Relations words to open people's minds.

SOUND MOVIES

Two Dynamic 16mm. Sound Movies

"THE SIXTH CHAIR" It is designed to make crusaders for education and to stir the complacent citizen out of his lethargy.

"POP RINGS THE BELL" It proves that education is not an assessment but an investment which returns handsome dividends.

Write to Us for any of the Material Listed Above

AMERICAN SEATING COMPANY
16th at Hamilton
PHILADELPHIA 30, PA.

HIGH QUALITY OFFICE FURNITURE

This group is designed to meet the popular demand for well proportioned and correctly designed office furniture which will lend dignity and an air of refinement to the office. This group is constructed with the use of high-grade materials throughout; is well designed and the finest of craftsmanship produces an excellent smooth and durable finish. All exposed exterior is genuine American black walnut, and the face veneers are carefully selected and richly figured quarter striped walnut. Interior materials are all native hard wood. The tops are 5 ply, 1¼" thick and of selected and beautifully figured quartered walnut. The top moulding is also of genuine walnut. Finished in a non-fading water-stain which emphasizes the beauty of the wood. The final coats are lacquer and the whole exterior of the desk is hand rubbed.

No. 2914

No. 2993

DESKS

No. 2914. Double Pedestal Flat Top Desk. size 66x36x30". Lower right hand drawer is sufficiently deep for filing and is equipped with a follower block.
Price 140.71

No. 2913. Double Pedestal Flat Top Desk, size 60x34x30".
Price 121.57

No. 2915. Single Pedestal Flat Top Desk, size 42x32x30".
Price 98.25

No. 2931. Double Pedestal Drop Head Typewriter Desk, size 54x32x30". Price 129.65

No. 2929. Single Pedestal Drop Head Typewriter Desk, size 42x32x30". Price 112.40

No. 2993. Double Pedestal Typewriter Desk, size 60x34x30". Typewriter in right or left side 135.15

BOARD ROOM OR CONFERENCE TABLES

No. 2972. 72x36x30" 92.60
No. 2966. 66x36x30" 87.40
No. 2960. 60x34x30" 81.71

T-1

CHAIRS

All chairs upholstered with Leatherette or Leather in red, green, brown or tan.

Coil spring seats, rubber tired casters, handrubbed finish and quality workmanship make these the finest office chairs available.

	Leatherette	Leather
No. T-1. Swivel Arm	51.75	63.00
No. T-2. Straight Arm	40.50	51.75
No. T-3. Swivel Armless	42.75	54.00
No. T-4. Straight Armless	33.20	42.75

WASTE BASKET

No. 2999 ..... 9.25

PHONE CABINET

No. 2900 ..... 56.00

Prices on above include delivery to nearest freight station

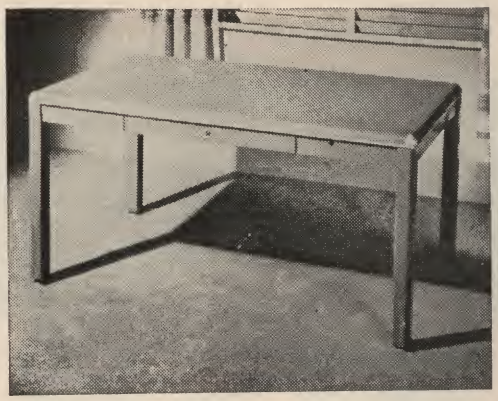
T-2

All Orders will be Priced at Time of Delivery whether Higher or Lower than Catalog Prices

METAL OFFICE DESKS

Here is an entirely new conception of a top quality office desk, made of steel by the manufacturer of a very fine line of steel office equipment, in the new "Lite Tone" color which will harmonize in any modern office. Equipped with an aluminum trim around the top with blending corner tabs.

The linoleum top was developed by color engineers to minimize eye-strain. Full suspension with a feather touch glide on the file drawer from full extension to final close. Island Base. Perfectly proportioned and balanced for attractive design, to give a leg free clearance, plus ease of cleaning.



No. MSF-60. Island Base, Flat Top Desk. Size 60x32x29". Grey or Green 156.25

No. MTP-60. Island Base, Secretarial Desk. Size 60x32x29". Typewriter attachment can be secured in either right or left pedestal as specified. Grey or Green 189.25

No. MTF-46. Typewriter Desk, 46x32x29", typewriter, left or right hand side, single pedestal 158.75

Tables to Match

Either End Paneled Type or 4 leg tables can be secured to match the "Lite Tone" Desk.

No. MOT-60 EP. Office Table End Panel. Size 60x32x29". Price 119.00

No. MOT 60-4L. Office Table—4 leg. Size 60 x 32 x 29". Price 96.75

No. MOT 46-4L. 46x32x29" 88.50

No. MOT 72-4L. 72x32x29" 121.25

METAL OFFICE CHAIRS

For the busy executive and the busy secretary, here is posture-perfect seating . . . designed to bring maximum comfort during long hours at the desk. Each has an ample sized flex-spring seat and shaped, well-padded back and arms. Bases are one piece welded construction with stainless steel kick plates to protect the perfect finish. Oversize ball-bearing, swivel casters give these chairs feather-touch mobility. Upholstered with leather or leatherette in a wide range of colors.

No. 4900. Executive Chair. Leatherette, seat height adjustable 59.50

No. 4900. Executive Chair. Leather, seat height adjustable . . 68.75

No. 1075. Stenographers Chair. Leatherette, seat and height adjustable 44.50

No. 1075. Stenographers Chair. Leather, seat height adjustable 51.50

Prices on above include delivery to nearest freight station

MODERN OFFICE FURNITURE

MODERN STYLED OFFICE FURNITURE

The School Official that requires the modern styling trend in the school office has his furniture needs filled by using this line.

The increasingly popular light finish, brass semi-flush drawer pulls, island bases, and overall design without sharp corners and edges, make this furniture the perfect type for the modern up-to-date office.

All desks equipped with adjustable glides for desk heights of 29 to 30 inches. Double file drawer is equipped with ball bearing suspension type runners. All veneers and plywood bonded with urea-resin water-resistant adhesives. Top veneers are sliced White Oak carefully selected for graining and quality.

No. 1513

No. 1566

DESKS

No. 1513. Double Pedestal 60″ x 34″ 144.44
No. 1504. Double Pedestal 60″ x 34″ 133.34
No. 1503. Double Pedestal 50″ x 26″ 128.50
No. 1515. Single Pedestal 42″ x 32″ 117.78
No. 1593. Double Pedestal Typewriter 60″ x 34″ 164.44

CONFERENCE OR BOARD ROOM TABLES

No. 1566. 66″ x 36″ 117.78
No. 1560. 60″ x 34″ 108.88
No. 1542. 42″ x 32″ 95.56

M-1

HAIRS

All chairs upholstered with Buff Grain Leather in red, green, brown, and tan. Chairs have coil springs, rubber tired casters, hand rubbed finish and quality workmanship.

No. M-1. Swivel Arm 74.00
No. M-2. Straight Arm 63.00
No. M-3. Swivel Armless 65.50
No. M-4. Straight Armless 54.00

Prices on above include delivery to nearest freight station

M-2

PRINCIPAL'S, TEACHER'S AND GENERAL OFFICE DESKS

THE "1300" LINE

Where quality is important and yet where economy must be given studied consideration, the "1300" line of desks should be considered.

Tops are of 1¼" five ply veneer plywood with solid hardwood rims rounded and smoothed to eliminate sharp corners. All exterior solid woods are of quarter sawn lumber. Rounded corners on drawer pulls complement the panelled drawer fronts. Legs are of 1¾" stock with polished metal ferrules. All desks are equipped with case hardened glides.

To complete these fine desks, dust bottoms, crosswise divisions in drawers, pen tray in lap drawer, and book compartment (filing section) in lower right hand drawer are provided as standard equipment.

Finished in either Natural or School Brown. Nos. 1312 and 1315 in Natural finish usually carried in stock.

No. 1312

No. 1313. Double Pedestal, Executive size 60" x 34" x 30" 106.80

No. 1312. Double Pedestal, 54" x 32" x 30" . 101.30

No. 1315

No. 1315. Single Pedestal, 42" x 32" x 30" . . . 83.95

No. 1331

No. 1331. Double Pedestal, Drophead Typewriter model, 54" x 32" x 30" . . 117.10

No. 1329. Single Pedestal, Drophead Typewriter model, 42" x 32" x 30" . . 100.70

No. 1393

No. 1393. Double Pedestal, Typewriter compartment in Left Hand or Right Hand side, 60" x 34" x 30" . . . 123.60

All prices include delivery to nearest freight station

PRINCIPAL'S, TEACHER'S AND OFFICE DESKS

No. 340

Where economy must be given studied consideration, these desks fit the need. Their hardwood interiors and the 5-ply writing beds with heavy lumber rims, rounded on the corners and edges, mean long pleasant service. Made of select plain white oak, these desk exteriors are given a smooth finish of school brown at the factory by means of thorough hand rubbing. Select lumber is used for drawer fronts, rails and legs. Rounded corners on drawer pulls complement the drawer fronts. Legs are 1¾" square and are tapered at the bottom. The hardwood drawer sides and solid fronts are dovetailed both front and back with 3 ply bottoms.

No. 340. Double Pedestal, 54"x30"x30" 75.30

No. 335. Single Pedestal, 42"x30"x30" 65.15

No. 025. Single Pedestal, 42"x30"x30". No lap drawer, no end or back panel 47.00

No. 025

No. 335

TYPEWRITER TABLES

No. 010

No. 374

No. 010. Made of plain oak, finished in a smooth school brown finish, this desk surface measures 20"x34"x26" high. Storage area in each of the three drawers is 9"x4½"x15" and the sturdy 5 ply white oak top is one inch thick. This desk may be used in either office or classroom with efficiency.

No. 010 ..... 36.75

No. 374. A useful typing table for either classroom or office, this model is sturdily built of fine-grained plain oak and finished either in school brown or natural. The ⅞" top is made of solid oak and measures 18"x32". A handy drawer offers storage space 9" x 1⅜" x 12" while a writing table offers additional working space. 26" high.

No. 374 ..... 13.85

Prices F.O.B. nearest Railroad Station

PRINCIPAL'S, TEACHER'S AND OFFICE CHAIRS

The four chair types of this line all have the same styling and superior construction. Plain Oak of selected quality is used throughout. These chairs can be obtained in natural finish or school brown finish. The two swivel models have seat height adjustments as well as tilt tension adjustments.

No. 300

No. 301

No. 302

No. 303

No. 300. Swivel Arm Chair 21.35

No. 301. Straight Arm Chair 15.90

No. 302. Armless Swivel Chair 18.80

No. 303. Straight Chair 10.75

BANK OF ENGLAND STYLE CHAIRS

STENOGRAPHERS CHAIR. Oak, in Natural or School Brown finish; and Genuine Walnut. Seat height and back tension adjustable.

No. 1407. Oak 23.95

No. 1407W. Walnut 29.35

STRAIGHT ARM CHAIR. Quartered Oak, in Natural or School Brown finish; and Genuine Walnut.

No. 1452. Oak 24.34

No. 1452W. Walnut 31.95

SWIVEL ARM CHAIR. Oak, in Natural or School Brown finish; and Genuine Walnut. Seat height and seat tilt tension adjustable.

No. 1451. Oak 32.55

No. 1451W. Walnut 40.35

Prices on above include delivery to nearest freight station

CHAIRS FOR CLASSROOM AND CAFETERIA

Excellent quality chair made of oak, sanded smooth, sealed and finished. Tablet arm made of close grained birch or maple to produce smoothest possible writing surface. All rails and stretchers doweled and glued. Seat screwed to frame rails. Frame corner blocks screwed and glued. *The new tablet arm has been developed to bring the writing surface nearer to the normal writing position.* This arm is highly adaptable to left handed pupils. Available in School Brown or Natural Finish.

No. 381T. 17½″ seat height 13.60
No. 040TA with square tablet arm, 11.95

These chairs are made of selected hardwood, well sanded, sealed and finished. The 16″ and 17″ chairs are corner blocked. All chairs have dowel construction firmly glued with waterproof glue. Seats are screwed to frame through seat rails. Available in School Brown or Natural Finish.

No. 382. Plain Oak Seat, height 13″ 6.75

No. 582. Plain Oak Seat, height 15″ 9.05

No. 181. Plain Oak Seat, height 17″ 9.95

This sturdily built all-purpose wood chair is constructed from carefully selected hardwood, and finished in natural to give a minimum light reflectivity of 30 per cent.

Stretchers are fully mortised within the legs. Seat and back rails are double doweled to legs and glued to legs.

Seat is fastened by seven screws through seat rails. Corner blocks are used on 17″ chairs. All corners and edges are rounded and smoothly sanded.

All sizes carried in stock for immediate shipment from our warehouse.

No. D-12. 12″ 6.50
No. D-13. 13″ 6.50
No. D-15. 15″ 7.50
No. D-17. 17″ 8.50

BENTWOOD CHAIRS

Bentwood chairs have been recognized as very good chairs for use in cafeterias and workrooms which are used almost entirely by older children and adults. These chairs are available in natural or school brown finish. These two finishes are the standard stock finishes. Special finishes can be obtained and it is requested that a color block of the color desired be furnished and price will be quoted. All chairs are furnished with plain Domes of Silence metal glides. Chair No. 96029-SU has a padded seat covered with leatherette.

No. 66090-S
Plain veneer seat, 14¾″x15¾″
Price each 7.70

No. 96029-SU
Padded seat, size 15″ x 15¾″.
Price each 10.60

No. 7111-S
Solid saddle seat, size 15½″ x 16½″. Price each 10.90

No. 418/2-S
Plain veneer seat, 16″ diameter.
Price each 8.65

Prices on above include delivery to nearest freight station

THE HALE 20TH CENTURY SCHOOL UNIT

THE FINEST —

- **CONSTRUCTION**
- **LUMBER**
- **DESIGN**
- **FINISH**

SUPERIOR LUMBER

Carefully selected close grained northern hardwoods, after six months of air drying and thorough kiln drying, are used in the manufacture of these fine units.

SUPERIOR FINISH

These units carry a Natural Finish with a light reflectivity in the approximate range of 30 to 55%. The finish is hand-rubbed and is especially formulated for school usage.

SUPERIOR DESIGN

The overall styling of this unit will harmonize with all types of contemporary architecture.

The smooth, well rounded edges, tapered seat, tapered legs and freedom from projecting corners add grace and form without impairing strength or serviceability of this unit.

SUPERIOR CONSTRUCTION

By using the patented valiton-compressed mortise and tenon construction, assures ruggedness and freedom from squeaks and swaying.

Chair frame is corner blocked to insure strength.

A steel reinforcing rod between the two front legs and recessed into the bookbox bottom gives added strength. All desk and chair rails and stretchers are pinned with wood.

All units furnished with rubber cushioned steel glides to prevent floor marring and allow the unit to move easily.

Consult our representative or call this office for your requirements.

WORK BENCHES

JUNIOR 25″ HIGH

SENIOR 32″ HIGH

All benches are constructed of high quality hard Maple or Birch. Tops are glued-up, 1¾″ thick reinforced with concealed tie rods. Tops are finished with two coats of linseed oil well rubbed in.

Legs are 2¼″ square with heavy rails with mortise and tenon joints, reinforced with draw bolts. Rails and aprons are 1¼″ x 4½″. Bases are natural finish. Benches are equipped with continuous screw vises, metal bench stop and bench dog. Rapid acting vises optional when specified. All benches shipped knocked down.

No. V-200. Single Bench 52″x22″x32″ high. Tool rack 32″ long; tool well 45″x7″ 109.00
No. V-201. Single Bench, same as above with Drawer 29″x14″x4¾″ 123.00
No. V-202. Double Bench 52″x36″x32″ high; tool well 41″x7″ 167.00
No. V-203. Double Bench, same as above with Drawer on each side 197.00
No. V-204. Single Elementary Bench 42″x22″x25″ high. Flush top 95.00
No. V-205. Double Elementary Bench 42″x30″x25″ high. 2 vises 118.00

EASELS

This easel has a three-ply basswood board 20x26″, permitting the use of paper 18x24″. The movable clips at the top permit the use of various sizes of paper without spoiling the board with thumbtacks. Tray has divider for 8 jars.

The legs are held apart by lock stepladder supports.

Double easels are also furnished with board and paint pans on both sides.

Adult Size

No. 596. Single 11.00
No. 696. Double 15.00

Kindergarten Size

No. 096. Single 9.50
No. 196. Double 13.00
8 oz. easel jars with lids ..... 1.20 dozen

DRAWING TABLES

Tried and accepted as the most sturdy and practical table. Top adjustment controlled by hand wheel on right side, raising and lowering of table by large lower wheel, and the added feature, two stabilizers fastened where they do just that—STABILIZE. The top selected soft-wood finished to a glass smooth surface, the base hard-wood finished golden oak.

23 x 31 x ¾″ 28.00
31 x 42 x 1 1/16″ 40.00
36 x 48 x 1 1/16″ 50.00

ART AND DRAWING TABLES

DRAWING TABLE

This fully adjustable drawing table has an ever level shelf and drawers, regardless of angle of working surface. Top size 23″ x 31″, shelf size 6½″ x 31″. The frame is made of hardwood beautifully finished in natural. Working surface is of soft wood to receive thumb tacks.

No. V-118. Complete with shelf and drawers . . 36.00

No. V-118X. Without shelf and drawers 31.00

YORK FOLDING TABLE

This table can be tilted to any comfortable angle. The top surface measures 23″ x 31″ and the table can be folded for storage to occupy a thickness of 3″. This table is economical because of its extremely low price and is also practical because it may be taken down or assembled in a short time and occupies a small space. The table comes in smooth grained natural finish and comes packed knocked-down in individual cartons.

No. 308 . . . . . 11.00

ART TABLE

Substantially built drawing table for art and mechanical drawing classes. Built with oak base and pine top with new, natural non-gloss lacquer finish; school brown on request. Adjustable top is 20 x 24 inches. Stationary top 20 x 10 inches. One instrument drawer without lock is 9 x 14½ x 2¾ inches. Weight 9 pounds.

29 inches long, 20 inches wide, 30 inches high.

No. V-115 . . . . . 62.00

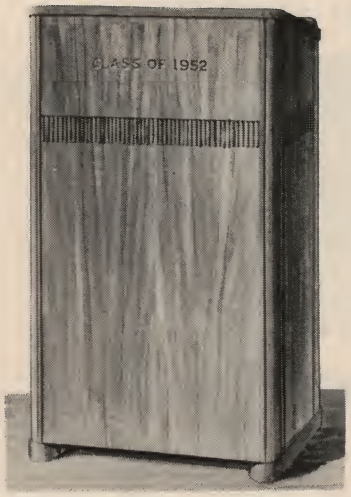
ART TABLE

This table meets requirements for a low price table. It is substantially built with oak base and birch top with new, natural, non-gloss lacquer finish; school brown on request. Table has adjustable top and metal footrail. One large drawer 23″ wide x 21″ deep x 4¼″ high. When ordering, specify whether top is to be natural or have school brown finish. Weight 140 lbs.

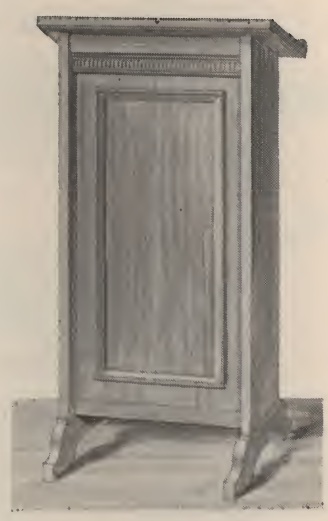
Size: 36 inches wide, 28 inches deep, 40 inches high.

No. V-116 . . . . . 95.00

SPEAKER'S STANDS



Richly beautiful in design and workmanship. Styled to blend harmoniously in any surrounding. Equally suitable for auditorium, class or lecture room. Distinctive and useful class memorials. V cut inscriptions such as class numerals or monograms on the front panel optional.



READER'S DESK

2′ wide, 1′ 4″ deep, 3′ 8″ high. Open back with two shelves.

No. 10026 ..... 97.45

No. 10026. With lamp installed at time of purchase of stand 119.55

SPEAKER'S GAVEL

A very beautiful gavel that may be used as a gift. Has space in center of gavel where silver plate with inscribed name may be attached by jeweler.

Made of solid hardwood with beautifully turned head.

Price 3.00

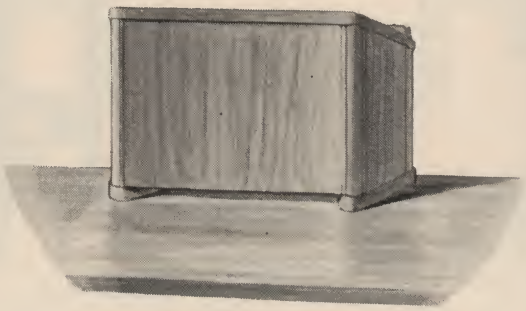


TABLE MODEL SPEAKER'S STAND

20″ wide, 14″ deep, 14″ high. Open back with bottom shelf.

No. 10045 ..... 43.45

LETTERS AND NUMERALS ON SPEAKER'S STANDS

V-cut 1″ high .. 1.10 for each letter or numeral
V-cut 1½″ high .. 1.70 for each letter or numeral
V-cut 2″ high .. 2.10 for each letter or numeral
V-cut 3″ high .. 2.55 for each letter or numeral

READER'S DESK

2′ wide, 1′ deep, 3′ 9″ high. Open back with two shelves.

No. 9792 ..... 74.45

SPEAKER'S STAND LIGHT

Speaker's Stand Lamp with adjustable reflector, 12″ wide, uses 40 watt lamp. Complete with switch cord and plug.

No. 9837 ..... 11.90

ENGRAVED MEMORIAL OR PRESENTATION PLATES OF VARIOUS SIZES ARE AVAILABLE. CONSULT OUR REPRESENTATIVE OR WRITE THIS OFFICE.

TROPHY CABINETS

The excellence of this Trophy Case pays tacit tribute to the winners of the treasured trophies displayed within it. The beautiful select cabinet wood frame and fluorescent illumination create a complimentary setting for the trophies.

Lengths 4 ft and 6ft., Height 7 ft., Depth 18 in. Equipped with three adjustable glass shelves and has side-sliding frameless polished plate glass doors in front with lock. The ends of the case are glass, protected by a wood frame. The black base is recessed. The bottom of the display section starts 16 inches from the floor. Fluorescent lights in continuous reflector are located in the top of the case back of the cornice. Standard Finish is Kingswood Oak. Special Finishes obtainable.

Prices on Request.

Most schools have cups and trophies won in various contests. Few have an appropriate cabinet in which to keep and display them. This cabinet will fill a long-felt want and will meet the requirements of the average school and be a distinct addition to any building or assembly hall.

This cabinet is made of plain oak, lacquer finish, in standard school brown. There are two adjustable shelves making three spaces in all and providing a larger amount of display room adaptable to any size cup or trophy.

The height over all is 72″, width 42″, depth 14¾″ and the base is 17″ from the floor.

No. 195. Complete with glass 90.00

ROUND AND HEXAGON TABLES

Each kindergarten should have at least one round and one hexagon shaped table.

These tables are well constructed of hardwood, smoothly sanded, and beautifully finished. Either School Brown or Natural Finish is available. Various top diameters and table heights can be obtained to fit nearly every schoolroom need.

All tables furnished with metal glides.

Write this office or consult our representative for prices and sizes.

STOOLS

WOOD STOOLS

Made of selected hardwood finished school brown and or natural. 14" diameter seat.

No. 118. 18"	7.25
No. 120. 20"	7.25
No. 122. 22"	7.25
No. 124. 24"	7.65
No. 126. 26"	7.65
No. 128. 28"	8.10
No. 130. 30"	8.10

ADJUSTABLE STEEL STOOLS

This all-purpose stool is a 14" round seat fitted with masonite. Adjustable leg extensions change the seat height from 17" to 32".

WITH BACK

No. 2513. (17" to 25")	9.75
No. 2513. (24" to 32")	10.25

WITHOUT BACK

No. 2511. (24" to 32")	7.25
No. 2511. (17" to 25")	6.80

STEEL STOOLS

This all steel stool has a 13" diameter concave heavy steel seat. Legs are of heavy angle steel riveted to seat flange. Lower end of legs formed in a manner to provide a glide without sharp edges. Stools have olive green baked on enamel finish.

No. 44DS. Furnished with adjustable steel back-rest 6" x 12".

24" or 26"	7.63
28" or 30"	7.84
32"	8.31
34"	8.31
36"	8.78

No. 4DS. Construction the same as No. 44DS without adjustable back.

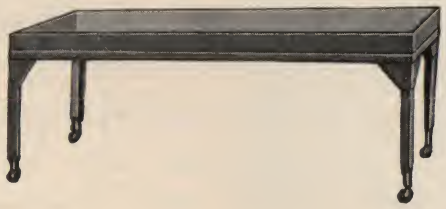
24" or 26"	4.99
28" or 30"	5.20
32"	5.67
34"	5.67
36"	6.14

SAND TABLES

Made of selected hardwood, finished in standard school brown lacquer. Lined with heavy galvanized iron, lapped and soldered at the corners and folded over the top. The top edge is covered with wood and there are no sharp edges of wood or metal to injure the pupil.

Size 72x30", 5" deep and 24" high. Shipped K.D.

No. 092. Shipping weight, 140 lbs. 37.50



This all-steel sand table is constructed with a one-sheet galvanized iron pan placed in a frame of welded steel angle iron. The frame is reinforced by a cross-member in the center to prevent sagging of pan. The table has removable steel legs and smooth-rolling casters. The table is shipped knocked-down and is easily assembled. Beige enamel.

No. 240. Size 72 inches long by 27 inches wide, 4 inches deep. Top of pan, 24 inches from floor . . . 30.00

KINDERGARTEN COTS

Made of selected hardwoods and covered with extra heavy canvas cover which is permanently attached with tacks. A child can set it up and put it away—29" wide and 54" long. Sturdy, comfortable and rigid.

No. 397. Tacked on cover. Each 8.00 25 or more 7.20

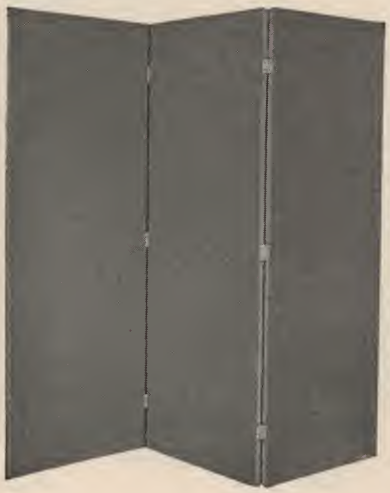
ARMY STYLE FOLDING COT

Size 52" x 21½" x 14". White canvas cover.

No. 704 . . . . . Each 6.00 25 or more 5.40

FOLDING SCREENS

Screens are used in many kindergarten projects as they are the most satisfactory way of building a wall or partition that can be quickly removed. The screen shown here may be given a permanent or temporary decoration suitable for the project.



Decorating screens has become a worth while art project in many schools. These lend themselves to any form of decorating desired. They may be painted, worked in crayon, covered with cloth or done in beautiful silhouette effects with colored papers.

The dramatic department finds many uses for screens that may be decorated and then redecorated for another play.

Made with a strong wooden frame covered on both sides with durable fiberboard and equipped with double action hinges.

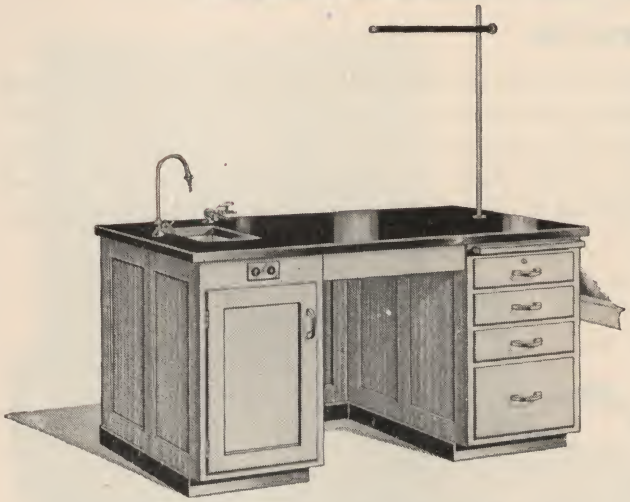
No. 0206. 3 panels, each, 20"x60" (ship. wt. 30 lbs.). Per screen 11.67
No. 8176. 3 panels, each 17"x68" (ship. wt. 30 lbs.). Per screen 11.67
No. 8206. 3 panels, each 20"x68" (ship. wt. 32 lbs.). Per screen 11.67
No. 2187. 3 panels, each 18"x72" (ship. wt. 35 lbs.). Per screen 11.67

IMPORTANT

Screens with more panels can be supplied. Add 4.00 to above prices for each additional panel desired.

QUALITY LABORATORY FURNITURE

INSTRUCTOR'S DESK



OUR COMPLETE LABORATORY LINE

Includes:

Instructors Desks
Printing Table
Developing Table
Aquariums
Germinating Beds
Chalkboards

Wall Cases
Counter Cases
Storage Cases
Book Shelves
Fume Hoods
Sinks

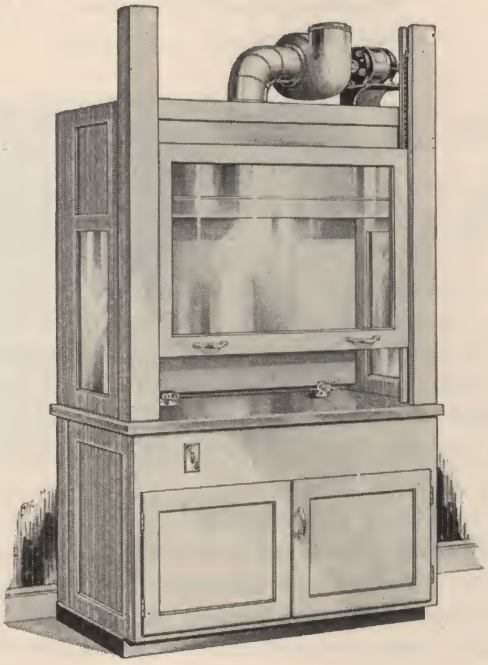
STUDENT TABLES

Biology
Chemistry
Physics
General Science

For 2, 4, 6, or 8 students each.

Request our Complete Catalog

LABORATORY FUME HOOD

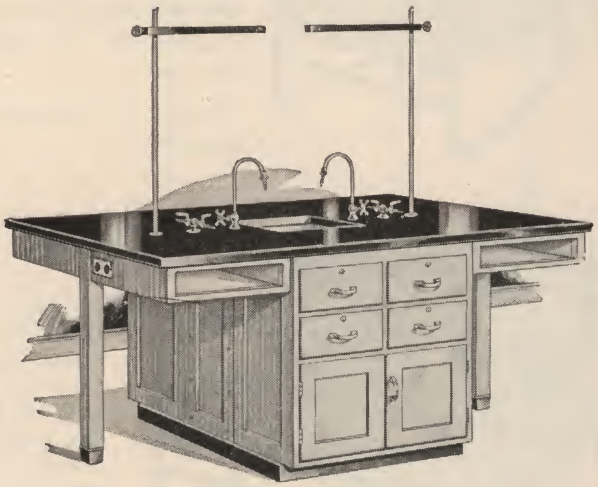


Our representatives are fully qualified to discuss your individual laboratory furniture requirements and we suggest that you consult with them for suggestions and prices.

In offering our line of laboratory furniture, we feel that we are offering you the highest quality equipment available at a price that will compare favorably with other similar products. This laboratory furniture is made in accordance with the strictest of specifications in order to promote efficiency in its use, to reduce the cost of maintenance and to make it most durable for the purpose for which it is intended.

You will find this equipment smartly and efficiently designed, durably constructed, beautifully finished and admirably equipped to serve your needs.

COMBINATION SCIENCE TABLE



ENGINEERING SERVICE

The engineering department offers you the result of many years of experience in planning and designing modern laboratory and educational furniture and thousands of industrial plants, hospitals, and educational institutions have availed themselves of this experience in planning their particular installations. We urge you to do likewise.

SUPPLY AND APPARATUS CASE

UPHOLSTERED FURNITURE

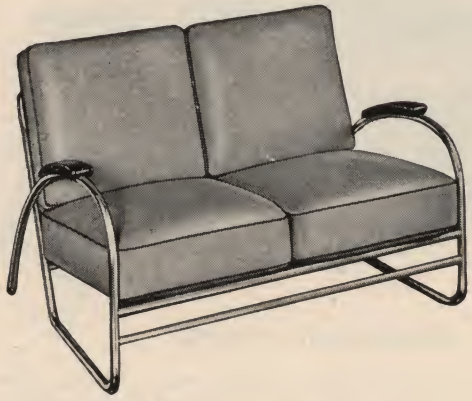
FOR TEACHERS' ROOMS, LOUNGES AND PRINCIPALS' OFFICES

CHROME FURNITURE

Function, elegance and luxury keynote the Royalchrome "470" series. Reversible air cushions have hourglass spring construction with reinforcement throughout in both spring and padding. 36 spring seat cushion is 22½" x 26" x 5½" thick. 20 spring back cushion is 22½" square x 5½" thick. All models equipped with black wood arm rests and sturdily constructed for hard wear and long, comfort-giving service.

No. 470. LOUNGE CHAIR. There's man-sized comfort in this single lounge chair designed for spaciousness. Overall dimensions 26" wide x 33½" deep.

Leather or Leatherette upholstered.



No. 472. SETTEE FOR TWO. For luxury in a limited space, select this deluxe settee. Two persons have more than ample room. Overall dimensions 48" wide x 33½" deep.

Leather or Leatherette upholstered.

No. 474. SETTEE FOR THREE. Favorite of many Royalchrome installations. This spacious settee really gives value plus. Overall dimensions 70" wide x 33½" deep.

Available upholstered in Leather or Leatherette in various colors.

Model 100

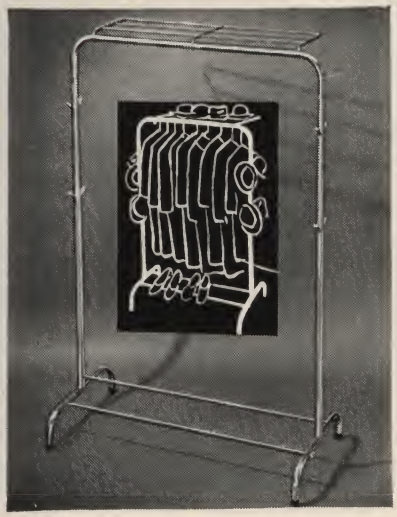
ALUMINUM FURNITURE

This smart aluminum furniture gives comfort a modern accent. Its rich and colorful beauty is a compelling invitation to ease and relaxation—and economy is doubly served by the durability which is such a noted characteristic of aluminum. Its handsome Duran upholstery is available in a wide chromatic range of vivid and subdued shades — and is easily cleaned with soap and water. Duran, with that supple "feel" which testifies to quality, is superior in many respects to leather; it is resistant to penetration and deterioration by acids, alcohol, gasoline, oil, grease, caustics and perspiration. The occasional chairs shown here blend themselves admirably into harmonious groupings, either in combination with other aluminum pieces, or with furniture of more conventional type, light in weight, easily moved and handled, they are particularly adaptable to settings where informality is the usual keynote.

No. 90 Chair. Seat 18" x 20"
No. 100 Chair. Seat 23" x 23"
No. 200 Settee. Seat 18" x 47"
No. 300 Settee. Seat 23" x 60"

OFFICE ACCESSORIES

METAL COAT RACK



Accommodates up to 20 coats, 12 hats, 5 pairs rubbers or shoes. Handsome triple-chrome plate finish. Extra sturdy construction. Holds well over 200 lbs.! 1" heavy gage steel tubing with $\frac{7}{16}$" rod stock for shoe rack and $\frac{5}{16}$" rod stock for hat rack. Comes knocked down for easy assembly. When not in use, stores in handy space-saving carton. Height 66"; width 42"; depth 22"; weight 19½ lbs.

No. T-101 ..... 24.00

UMBRELLA RACK

No more dripping umbrellas! 8 separate compartments hold 16 umbrellas—yet stand takes up remarkably little space. Gleaming triple-chrome plate finish on 1" heavy gage steel tubing ($\frac{7}{16}$" and $\frac{3}{16}$" bar stock for grids). Smart looking aluminum drip pan with special grids to hold umbrellas in place. Height 18"; width 20"; depth 13½"; weight 11 lbs.

No. T-301 ..... 18.00

WOODEN COSTUMER

The beautifully turned post and matching legs on this costumer are both made from 2½" solid walnut with a hand rubbed finish. The hooks are made of ⅜" solid brass rod, with decorative knobs at both ends, highly polished and lacquered. 72" overall height. Base 22" spread.

No. 125. Each 30.00

METAL COSTUMER

Answers all your small-space storage problems! 4 triple-chrome plated, double-style hooks. Gleaming triple-chrome plated finish with black crackle base; de luxe gray, green or brown (baked enamel bonderized against rusting or chipping) with matching crackle base. 1¼-inch heavy gage steel tubing. Can't topple over! Solid cast iron base with 3 contact points for extra steadiness. Simple to assemble. Height 68"; base diameter 14"; weight 16 lbs.

No. T-201 ..... 14.00

TYPEWRITER STAND

Dependable, easy-to-operate lever device permits castors to be lowered when stand must be rolled about—raised out of way when in position for working. When leaves are raised, presents flat, absolutely level working surface. Green color, natural maple, walnut gray.

Top size	16" x 18"
Leaf size	16" x 9"
Extended	16" x 36"
Height	27"
Price each	18.00

Style No. 102. Same as above without elevating device.
Price each 13.75

Style No. 100. No leaves—No elevating device, top 16" x 18" x 27" high.
Price each 9.20

PLASTIC TOP CAFETERIA TABLES

Special sizes and colors also available.

Consult our representative or office for prices and samples on your requirements.

Beauty, color, durability — these are the outstanding features of Decorative laminated molded plastic. And it is these same qualities that have won for it nation-wide acceptance as the ultimate in decorative surface material. Its dense smooth, easily cleaned surface make it most practical and sanitary for table and counter tops in the finer dining rooms, cafeterias and restaurants.

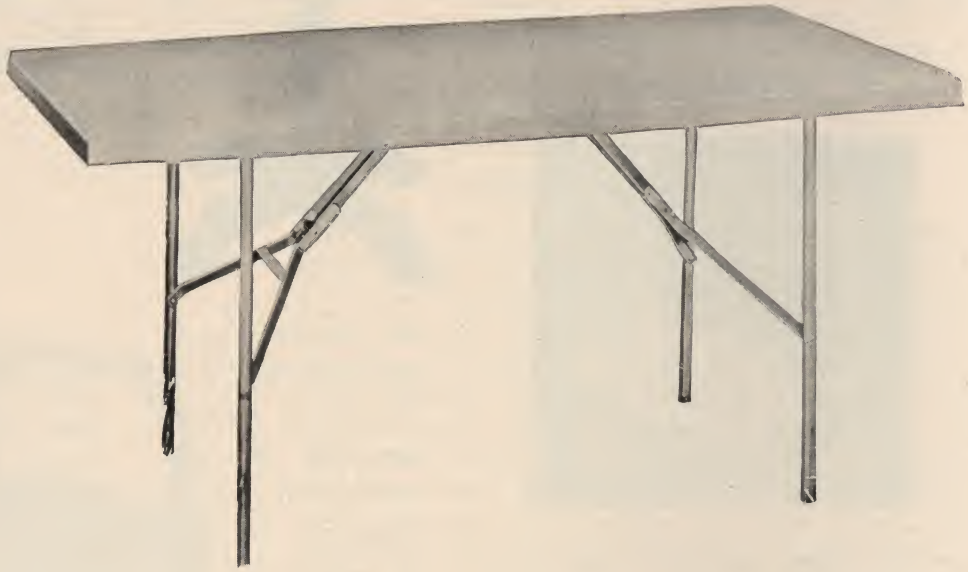
This remarkable plastic material is an achievement in decorative art and provides the architect, designer, or decorator with a broad choice for full play of individuality in creative expression. The non-fading colors and stain-proof, wear-resistant surfaces reduce maintenance to the minimum.

TAN LINEN TABLES

Top sizes 30" x 72" x 1¼" with table heights for use with various size chairs. Standards finished with beige enamel.

FOLDING TABLES

All units have a smooth writing surface without screw or rivet heads. This assures a sanitary table top which complies with health regulations. Each table has a primer coat of sealer and is finished with coats of heavy body lacquer. This provides a beautiful appearance with maximum heat and wear resistance. At all points of leg contact, underbracing is pressure laminated to the top panel assuring a solid, level top. Top panel is rabbeted into the hard wood molding providing a convenient handle for carrying.



FOLDING BENCHES

Benches are as sturdily constructed as the tables. The 6 foot bench has 2 legs and the 8 foot bench has 3 legs to prevent teetering. These benches have the same heavy aprons, top materials and variety of finishes as used in the tables.

FOLDING TABLES

TOP MATERIALS AND FINISHES

Top materials are Plywood, tempered MIDTEX, Formica and Linoleum. Standard MIDTEX finish in natural blond or brown. Plywood in walnut or natural finishes. Specify color desired when ordering. Legs and all metal parts in taupe enamel.

TOP

All tops smooth and free from metal protrusions or indentations.

⅜ inch hardwood plywood used on all tables 72 inches or smaller. ⅜ inch fir plywood used on all tables of 96 inch length.

¼ inch tempered MIDTEX hardboard in natural blond or brown finish. Specify for choice.

Aprons 2⅛ inch x 1⅛ inch of kiln dried hardwood stock.

Heavy steel corners will be factory installed for small extra charge.

LEGS

"DuHoney-20" leg locks flat in folded position.

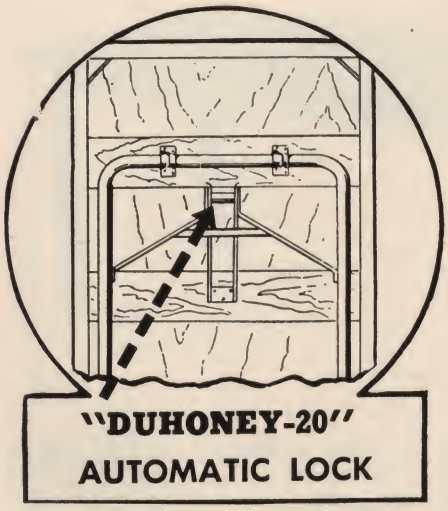
One piece tubular steel leg of 1 inch 16 gage welded tubing.

Chromium mar-proof glides used on all legs.

New welded brace provides absolute rigidity.

Straight-line stress principle assures positive lock.

Flat stock of carbon steel die cut.



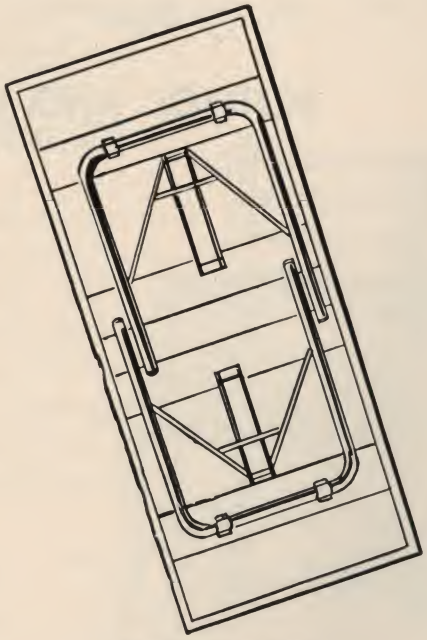
"DuHoney-20" automatic folding leg is positive and fool proof. All moving parts are concealed within welded tube. New welded brace combined with straight - line stress principle assures perfect rigidity.

TABLE SIZES

30" x 96"
30" x 72"
30" x 60"
30" x 48"
36" x 96"
36" x 72"
36" x 36"
60" round

TABLE HEIGHTS

Standard heights for all tables 29½". Standard heights for all benches 18". Tables also available in 22", 24", 26" and 28" heights. Midwest tables with adjustable legs can be furnished from 25" to 30" or any point between.



EASY TO STACK

Each table folds completely into 2⅛ inch depth with no metal parts protruding. Midwest's construction which assures minimum weight allows 8 foot table to be handled by one person.

Prices on Request

BEAUTIFUL MODERN BOOKCASES

The warm character of seasoned, kiln-dried woods is emphasized by attractive finishes to meet the most discriminating requirements. Into each bookcase is put the pride of years of outstanding achievement, the careful workmanship given only by master craftsmen, and the best of finest woods.

The closed base gives a custom "built-in" effect when the case is placed against a wall. Also, ideal when cases must be backed together. Straight, modern lines bring out the beauty of the fine grained woods. Hand-rubbed finishes in quartered oak, softone oak, imitation walnut or mahogany, genuine walnut or mahogany to meet every requirement.

Sliding panels close tightly to keep book sections dust-free; operate freely, noiselessly at finger-touch control. Modern sloping top focuses eye-attention on shelf contents.

These sectional bookcases are easy and simple to assemble. No tools are required. Each section has an intermembering rail extending across the full width of the top, and a tongue extending upward which engages in a groove provided in the bottom of each section at the back. When one section is placed on top of another, this inter-locking rail fits into a recess in the bottom of the section that is placed above it, while the bottom groove of the back of the upper section fits over the tongue of the lower section. This gives a sturdy and perfectly aligned bookcase.

Prices on Request

SCHOOL AND OFFICE TABLES AND CHAIRS

This Bent Frame construction chair eliminates joints and adds to appearance. Seat 17½″ wide x 16″ deep. Natural or School Brown finish. 17″ high.

No. 665W. 14.55

Table has solid plain oak top ⅞″ thick with pencil rounded edges. Natural or School Brown finish. Available in heights from 22″ to 30″. Drawer size 10 x 10½″. Dovetailed construction. Legs 1¾″ with rounded outside corner. Rails 4½″ wide.

No. 6148. 48″ x 20″. Two Drawers 24.40
No. 6160. 60″ x 20″. Three Drawers 30.00
No. 6172. 72″ x 20″. Four Drawers 33.75
No. 6660. 60″ x 30″. Six Drawers 42.00
No. 6672. 72″ x 30″. Eight Drawers 50.65

BOOKCASES

ECONOMY BOOKCASES

Unusually well-constructed, yet economical, these bookcases may be purchased unfinished or finished with any stain you desire. They are of doweled construction with fixed shelves and plywood backs, and may be purchased with from one to four openings. These bookcases are handy in the schoolroom or office and are also excellent for displaying trophies and exhibits. They may be used as decoration projects in the applied arts department of your school, and also for block storage areas in kindergarten.

Size	Unfinished	Finished Natural	Finished School Brown
No. 4. 36"x10"x51"	27.70	33.00	30.75
No. 3. 36"x10"x39¼"	24.10	29.35	26.70
No. 2. 36"x10"x27½"	20.90	25.50	23.20
No. 1. 36"x10"x19½"	16.90	20.70	18.85

OPEN BOOKCASES

These open bookcases are constructed of hardwood throughout and beautifully finished walnut.

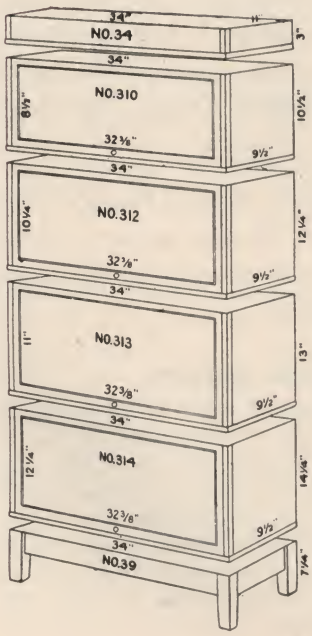
The modern design of this case will blend well in the schoolroom or school office.

Three shelves are adjustable and may be set at any desired position. Adjustment holes are spaced every two inches.

Bookcase is 48" high x 36" wide x 10" deep.

No. 4836 ..... 36.70

SECTIONAL BOOKCASES



This strongly built sectional type bookcase enables the user to change the arrangement of the sections or add to the number of sections at any time. Various size sections are available to accommodate nearly every size book. Available in the following finishes: No. 41 Birch, No. 8 Birch Mahogany, No. 85 Birch Walnut, and No. 96 Genuine Walnut. Prices are shown for each individual section, base, or crown.

Sec. No.		Birch	Walnut
No. 34.	Square Crown	7.34	10.50
No. 310.	Small Book Section	12.50	15.15
No. 312.	Medium Book Section	12.50	15.15
No. 313.	Law Book Section	12.50	15.15
No. 314.	Large Book Section	12.50	15.15
No. 39.	Square Leg Base	7.34	10.50

Please indicate Section Number, Finish Number and whether birch or walnut material is desired.

LIBRARY FURNITURE

"A"

"C"

"B"

"D"

In illustration A, library furniture as it was supplied for the Cincinnati Public Library, Oakley Branch, is shown. This is a very modern installation and was built to the library's exact specifications. Please note the modernness of the charging desk, the library tables and shelving.

In photograph B, a close detail of modern-type shelving is shown as it was installed in the Toledo Public Library. This furniture was a special design and was constructed of walnut wood.

For complete information and prices, write this office or consult our representative. We shall be glad to supply you with complete plans, layout and estimated costs for improving your library service.

Photograph C shows the installation at the Richmond Senior High School Library, Richmond, Indiana. Of particular interest are the tables in this library which are of pedestal type and are made of genuine walnut and have a stretcher reinforcement.

The Cushing Oklahoma Public Library is shown in Photograph D. This job is made of rift sawn oak of a special design. In the foreground are selected matched oak panels with marble base and linoleum top.

PLANNING YOUR LIBRARY

The best public or private libraries of today do not just grow. They are scientifically planned with an appreciation of the individual conditions that vary in almost every installation. The experience and facilities of trained engineers and systems experts are available to you for rearranging or planning your library. We are glad to cooperate with architects, librarians and library committees. Let us help you decide the proper ratios of floor space, seating capacity, books, shelving, tables, and the size, finish and arrangement of equipment.

LIBRARY FURNITURE

LIBRARY—IRONDEQUOIT HIGH SCHOOL, IRONDEQUOIT, NEW YORK

SPECIAL DESIGNS

In addition to a comprehensive line of stock library equipment, we are equipped to order special charging desks, catalog cases, tables, bookcases and other miscellaneous library equipment from architects drawings and specifications. If desired, our designers will be glad to submit drawings of any equipment to meet individual needs.

Careful consideration should be given to the question of special designs, special finishes or special woods, as these not only add to the initial expense but involve a higher cost on subsequent purchases of equipment.

Let us submit a layout and schedule of equipment necessary for efficient operation of your library. We will also supply an estimate of cost for budget appropriations, complete specifications and sketches or cuts of all items at your request.

When writing for estimates and floor plan suggestions, the following information should be included:

1. Exact dimensions of the room.
2. Size and location of windows, doors, steam pipes and other obstructions, as well as any offset or pillars. Only a rough sketch is necessary, but exact measurements are always essential.
3. Number of potential users and approximate amount of books to be housed.
4. Any special equipment or inclusion of any different features that might be considered desirable by your librarian or architect.

LIBRARY ACCESSORIES

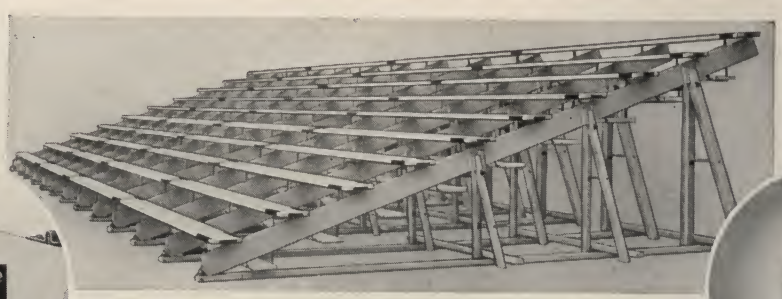
Accessories are as important a part of a library as the stock furniture, and therefore we carry at all times, a complete supply of these to meet your needs. Individual study tables might increase the serviceability of your library greatly, as might small bookcases for individual collections. Adjustable charging desk stools and low swivel chairs are invaluable behind the charging desk while single and double charging trays will aid your librarian in keeping her files in order. Heavy, rigidly constructed book trucks with three shelves are open on both sides and are mounted on easy-rolling ball-bearing casters. These as well as the other units, may be furnished in special designs to blend with your library furniture.

Our card catalog cabinets, information files and storage cabinets—all available in your own special design as well as the standard design—will greatly aid you in your filing and storage problems. A variety of dictionary stands, display racks and newspaper racks will allow easy accessibility to the wealth of informative material in your library.

Exhibition cases of the table-type with polished plate glass on the top and all four sides are available, as well as free standing wall cases.

Bulletin boards, shelf label holders, metal book ends and all types of filing supplies can also be obtained.

Universal PORTABLE WOOD BLEACHERS



A 60 foot group of 10 row stands, 440 capacity. *Left:* Special alloy steel seat supports and footboard hangers bolted, top and bottom, to stringers. *Right:* Stirrup iron, steel shod stringer nose and edge bolting insure complete safety.

Indoors or outdoors—wherever safe, comfortable seating is needed at reasonable cost, Universal Portable Wood Bleachers are the preference all over the nation. All wood parts are kiln dried—dense structural Douglas Fir for stringers, sleepers and horses. Seat and foot rests are end bolted to prevent splitting. Special analysis steel metal parts, over-size bolts and many other exclusive design features make them the most serviceable, economical and safest seating of their kind. Sturdily engineered, they support a 400% overload with absolute safety. Continuous steel tie bars fit securely into special hooks bolted to each horse.

End type seat connectors with flange over each seat, prevent wanton removal of seat boards. Seat board connectors of heavy gauge metal fit 4" over end of each connecting seat board holding them firmly in place eliminating lap joints and add strength at vital point in the structure. The stirrup iron, steel shod stringer nose and edge bolting provide adequate strength at the stringer nose pocket which must carry the heavy, forward thrust.

Optional equipment: Bolted type foot board slings of hot rolled steel, attached with ⅜" thru bolts. Aisle treads (usually 3 ft. wide). Handrails of double 2x4's behind top rows and down each end section.

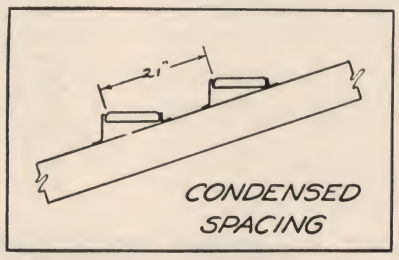
SEATING CAPACITIES PORTABLE WOOD BLEACHERS

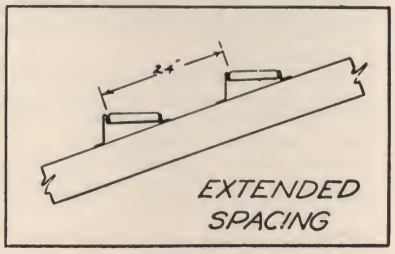
Tiers High	5	6	7	8	9	10	15	20	25
Length of Group									
60 ft.	220	264	308	352	396	440	660	880	1100
80 ft.	290	348	406	464	522	580	870	1160	1450
120 ft.	440	528	616	704	792	880	1320	1760	2200
140 ft.	510	612	714	816	918	1020	1530	2040	2550
160 ft.	580	696	812	928	1044	1160	1740	2320	2900
180 ft.	660	792	924	1056	1188	1320	1980	2640	3300
210 ft.	770	924	1078	1232	1386	1540	2310	3080	3850
240 ft.	880	1056	1232	1408	1584	1760	2640	3520	4400
300 ft.	1100	1320	1540	1760	1980	2200	3300	4400	5500

Tiers High	CONDENSED TYPE		EXTENDED TYPE	
	Height	Depth Front to Back	Height	Depth Front to Back
2	1′ 9¼″	3′ 2″	1′ 9¾″	3′ 5″
3	2′ 3¾″	4′ 5″	2′ 5¼″	4′ 11″
4	2′ 7¾″	6′ 4½″	3′ 0½″	7′ 1½″
5	3′ 5½″	8′ 1″	3′ 8¼″	9′ 1″
6	4′ 0″	9′ 6″	4′ 3¾″	10′ 9″
7	4′ 7½″	11′ 2″	4′ 11¼″	12′ 8″
8	5′ 1¼″	13′ 2″	5′ 7″	14′ 11″
9	5′ 8¼″	14′ 9″	6′ 2¼″	16′ 9″
10	6′ 1¼″	16′ 6″	6′ 11″	18′ 9″
15	9′ 0¼″	24′ 8″	9′ 4″	27′ 6″
20			12′ 5½″	37′ 3″
25			12′ 11″	46′ 10″

Seating capacities and dimensions, at right, are for standard condensed or extended type bleachers as diagramed below. Either type can be used indoors but extended type is recommended for outdoor use. It affords 3" additional knee room.

Use our engineering department to help you with your planning and give you price information on your needs.





TYPICAL UNIVERSAL INSTALLATIONS

ROLL-A-WAY
Amity Twp. School Dist.

FOLDING BLEACHERS
Conneautville School Dist.
East Greenville High School
LaFayette School, Lancaster
Mayfield High School
Bellevue School, Pittsburgh
Shippenville School Dist.
State Teachers College, Slipper Rock

5 TIER WOOD
Stoneboro Joint School

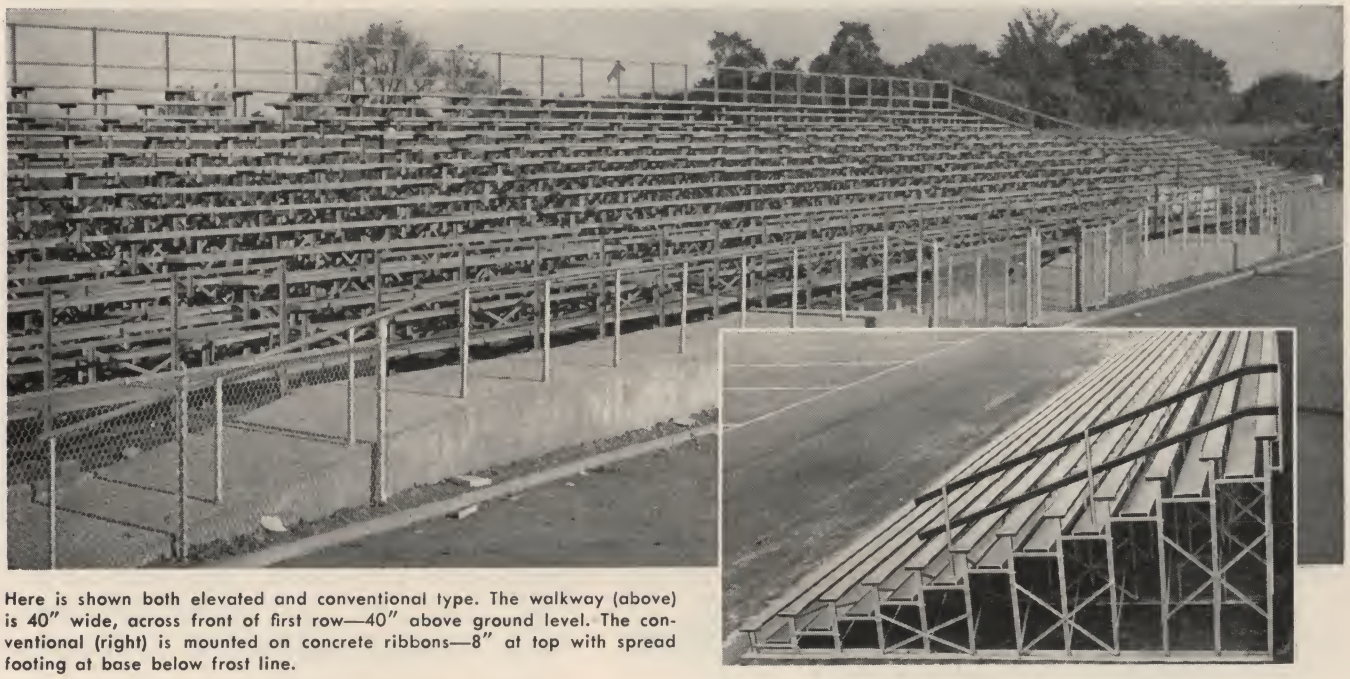
6 TIER WOOD
Beccaria-Coalport-Irvena School

8 TIER STEEL
Pitcairn Public Schools
Kingston Twp. School Dist.
Hegins Twp. School Dist.
Wellsboro Boro Schools

12 TIER STEEL
Apollo Public Schools
Brookville Public Schools
Mechanicsburg Boro School Dist.

10 TIER STEEL
Penn Twp. High School
Bellwood-Antis Schools
Bridgeport School District
Springfield Twp. High School
Danville School District
Ford City Jr. Sr. High School
Greenville Public Schools
Grove City School Dist.
Mercer Senior High School
Nesquehoning School
Pen Argyle High School
Pottstown Jr. High School
Scott Twp. School Dist.
Titusville School Dist.
Turtle Creek School Dist.
Waynesburg College

Universal PORTABLE AND PERMANENT STEEL GRANDSTANDS



Here is shown both elevated and conventional type. The walkway (above) is 40" wide, across front of first row—40" above ground level. The conventional (right) is mounted on concrete ribbons—8" at top with spread footing at base below frost line.

THE PERMANENT STEEL

Universal Steel Grandstands are easily erected. All parts are precision built and fit to perfect position. No special tools are needed. They are easily assembled and just as easily dismantled for moving to any other location. Universal superior features contribute to overload safety—and to greater structural strength. All posts and supporting uprights are steel construction with cross-section area in excess of that required. Diagonal X braces are electrically welded to uprights making all units rigid—no side sway. All weight is carried by vertical steel posts direct from seat to ground.

Sills are of steel angles and are securely bolted to the foundation. Seat boards are on steel angles welded to uprights. Foot boards are supported by steel crossbars attached to uprights by patented compression joints.

Standing on concrete ribbon foundations the new and improved Universal Steel Grandstand is the ideal permanent installation for sturdy-built, perfectly safe, comfortable seating. Weight is evenly distributed over entire stand—made possible by multiple vertical seat and foot board support.

When mounted on concrete ribbons both types become permanent installations. Any number of sections and rows may be used permitting almost any outdoor seating plan. Additional sections and rows may be added as needed.

Designed for double-duty economy they may be moved from one location to another by simply dismantling and re-erecting by sections. The various exclusive design features, built into Universal, permit a gain in advantage of a permanent installation to the flexibility and economy of portable equipment.

Succeeding rows of both elevated and conventional types provide a full 18 inches of leg room. From foot rest to seat board —they also provide 24 inches of seating room from back of one seat to the next—permitting both comfort and unobstructed vision.

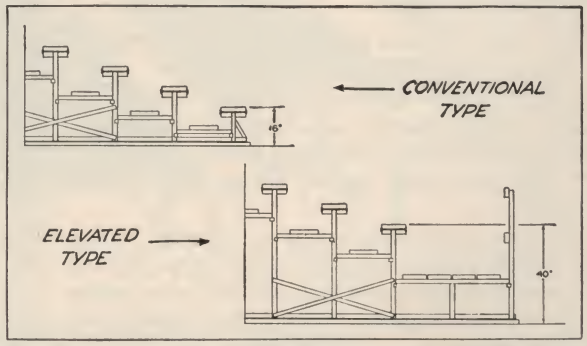
Universal engineers will render a complete counseling service to you—without cost or obligation. Write us your needs.

THE PORTABLE STEEL

Universal Portable Steel Grandstands can be mounted on 2"x6" wood ground sills or on concrete ribbons and are also available in the conventional or elevated types. They include every essential factor for safety, simplicity, comfort for long and trouble-free service. They will hold in excess of 4 times their rated live weight load.

Designed for flexibility of seating capacity they are expanded by adding extra rows at the rear, in multiples of 3, or by adding extra sections. Quickly and easily assembled or disassembled—they can be readily moved from one location to another—indoors or outdoors.

The chart below shows seating capacity of conventional and elevated grandstands. Dimensions cover only conventional. Write for similar data on the elevated type and complete and specific information.

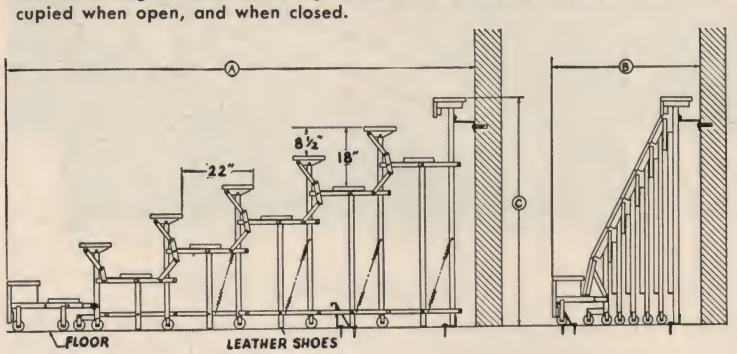


Seating Capacities of Non-Elevated Type Universal Steel Grandstands

TIERS HIGH		5	6	7	8	9	10	11	12	13	14	15
No. of Sect's	Length of Group	TOTAL SEATING CAPACITY										
1	18 ft.	65	78	91	104	117	130	143	156	169	182	195
3	54 ft.	195	234	273	312	351	390	429	468	507	546	585
5	90 ft.	325	390	455	520	585	650	715	780	845	910	975
7	126 ft.	455	546	637	728	819	910	1001	1092	1183	1274	1365
9	162 ft.	585	702	819	936	1053	1170	1287	1404	1521	1638	1755
11	198 ft.	715	858	1001	1144	1287	1430	1573	1716	1859	2002	2145
13	234 ft.	845	1014	1183	1352	1521	1690	1859	2028	2197	2366	2535
15	270 ft.	975	1170	1365	1565	1755	1950	2145	2340	2535	2730	2925
17	306 ft.	1105	1326	1547	1768	1989	2210	2431	2652	2873	3094	3315
Depth Front to Back		8' 10"	10' 10"	12' 10"	14' 10"	16' 10"	18' 00"	20' 10"	22' 10"	24' 10"	26' 10"	28' 10"
Hgt. Top Row		4' 0"	4' 8"	5' 4"	6' 0"	6' 8"	7' 4"	8' 0"	8' 8"	9' 4"	10' 0"	10' 8"

Universal ROLL-A-WAY STANDS

Above shows Roll-A-Way in extended and closed positions. Notice extra floor space available when stands are closed. No unsightly plates or holes to mar the floor. Diagram below shows graphically the difference between space occupied when open, and when closed.



Where indoor space is at a premium, Roll-A-Way offers the solution to your seating problem. Quickly opened when you need seating and easily closed to permit use of large floor area for regular gymnasium activities. In the illustration at left the standard front row shows a single row of convenient seats at all times. Fully folded front row can be had at no extra cost.

Sway forces are carried by channel iron X braces between vertical supporting posts. Seat and foot rests are 5/4" x 10". Rollers are overload rated and leather shoes on alternate uprights hold stand firmly when open.

These stands are built to hold a live load of 120 lbs. per linear foot of seats, with an overload safety factor of more than four. Chair seat height of 18" is provided for maximum comfort. A full 22" between seat centers provide ample leg room. Can be used against walls or in front of built-in seats over locker rooms.

All steel parts finished in school furniture brown. Wood parts are stained, shellacked, rubbed down and spar varnished. End panels (optional) at small additional cost.

TABLE OF SIZES

No. of Rows	3	4	5	6	7	8
A—Depth Opened	4′ 8″	6′ 6″	8′ 4″	10′ 2″	12′ 0″	13′ 10″
B—Depth Closed	2′ ¾″	2′ 5″	2′ 9″	3′ 1¼″	3′ 5¼″	3′ 9½″
C—Height at Rear	2′ 10½″	3′ 7″	4′ 3½″	5′ 0″	5′ 8½″	6′ 5″
No. of Rows	**9**	**10**	**11**	**12**	**15**	**20**
A—Depth Opened	15′ 8″	17′ 6″	19′ 4″	21′ 2″	26′ 8″	35′ 10″
B—Depth Closed	4′ 1½″	4′ 5¾″	4′ 9¾″	5′ 2″	7′ 0″	9′ 3″
C—Height at Rear	7′ 1½″	7′ 10″	8′ 6½″	9′ 3″	11′ 4½″	14′ 10½″

Universal FOLD-A-WAY STANDS

Scientifically designed and tested under varying conditions in hundreds of gymnasiums all over America, Universal Fold-A-Way stands are ideal for all gymnasium seating needs. Compact and roomy, greater ease of operation, instant access to areas under and behind. Standard unit lengths up to 16 feet; 3 to 10 rows. See table below.

The enclosure panels open to lie flat, face side down —protecting the floors when stands are in use.

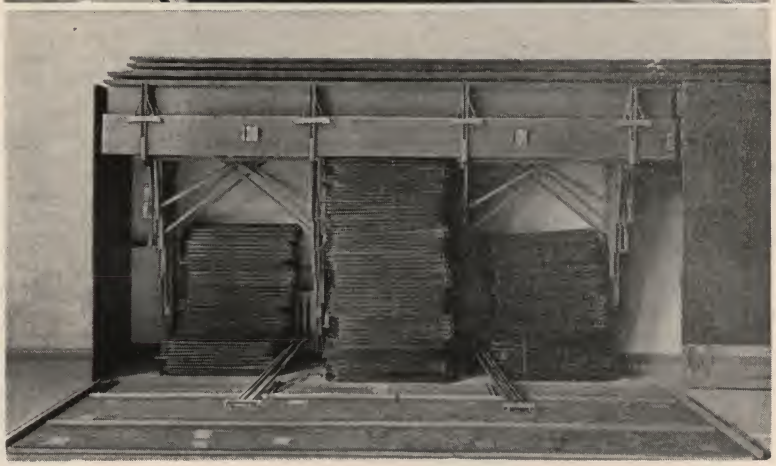
Auxiliary chair storage is provided beneath the stands—quickly accessible and evenly distributed. Adequate table space is available for scorers of games—14" wide—convenient lengths. Do not affect closing of stands.

Universal Fold-A-Way stands are installed by factory trained experts to insure long, heavy-duty use. Our seating engineers will help you plan your seating needs—without obligation. Write us for complete Universal catalog.

ASK US FOR QUOTATIONS

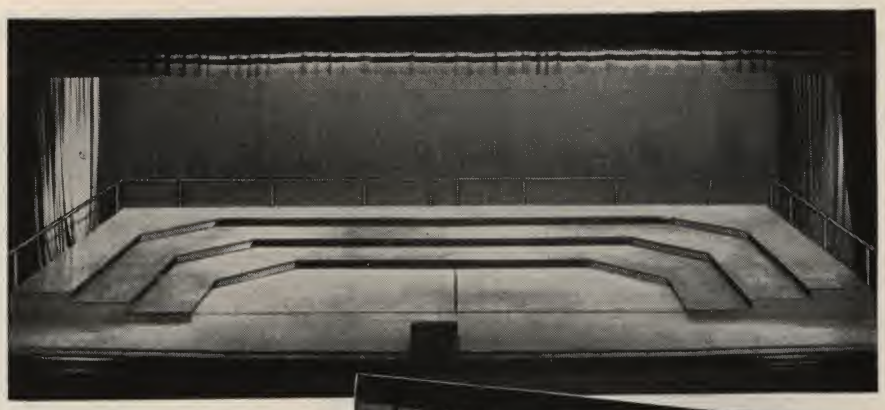
FOLD-A-WAY TABLE OF SIZES

Number of Rows	3	4	5	6	7	8	9	10
Depth of stand in use	4′ 8″	6′ 6″	8′ 4″	10′ 2″	12′ 0″	13′ 10″	15′ 8″	17′ 6″
Vertical height in use	3′ 2″	4′ 1½″	5′ 1″	6′ 0½″	7′ 0″	7′ 11½″	8′ 11″	9′ 10½″
Depth when folded	1′ 8″	1′ 11½″	2′ 3″	2′ 6½″	2′ 10″	3′ 1″	3′ 5″	3′ 8″
Vertical height folded	3′ 8″	4′ 4½″	5′ 1″	6′ 0½″	7′ 0″	7′ 11½″	8′ 11″	9′ 10½″
Space gained when folded	3′ 0″	4′ 5½″	6′ 1″	7′ 7½″	9′ 2″	10′ 9″	12′ 3″	13′ 10″



All Orders will be Priced at Time of Delivery whether Higher or Lower than Catalog Prices

PORTABLE FOLDING STANDS

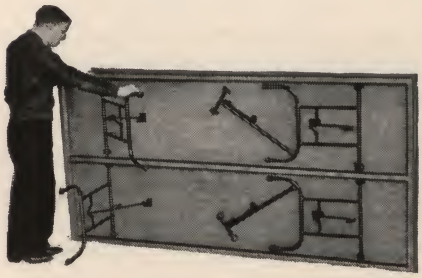


IMPROVE APPEARANCE OF YOUR BAND, ORCHESTRA, CHORAL AND DRAMATIC GROUPS

Stands and Platforms are composed of individual units . . . additional units can be added to accommodate larger groups . . . fewer units used for smaller groups. Units of the same height can be used for platforms and stages in large halls, schools, auditoriums and other meeting places. These portable folding stand units are strong, sturdy, safe and rigid when set up.

Units are easy to set up and store in small space. You can stack a complete Band Stand as shown in the top photograph in a space 4′ wide, 8′ long and 6′ high.

One Unit Erected

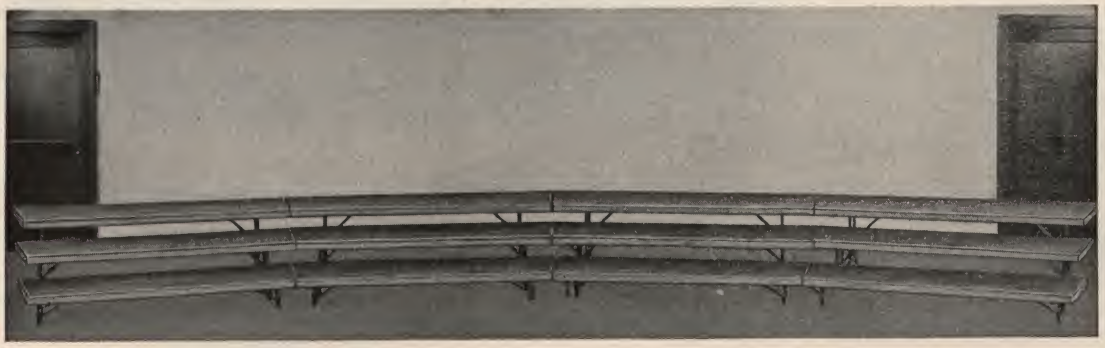


Folding Stand units are made in various heights starting at 8″ and increasing by 8″ rises. Legs fold under for easy compact storage.

Side View of Section

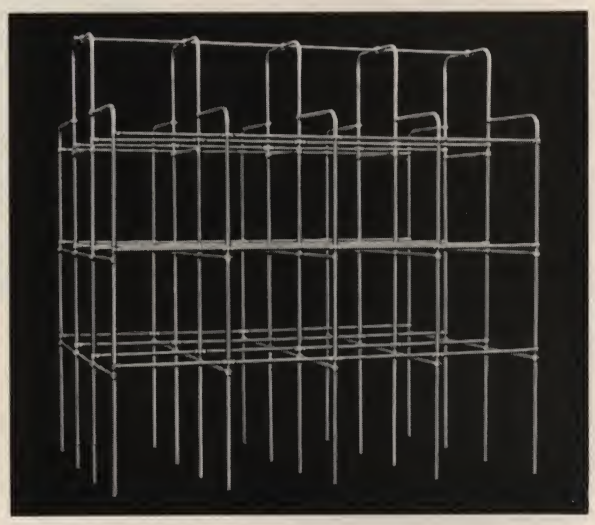
PORTABLE CHORAL STANDS

Improve appearance . . . Increase audience interest. Made in two different types for seated or standing groups and in 3 or 4 elevations. The semi-circular arrangement and row elevation shown in the photograph below help both the singers and director to produce a better performance.



The view above shows one complete 3 elevation section for a standing group. Units are securely locked together for extra rigidity. Rubber feet prevent shifting on the floor.

OUTDOOR CLIMBING GYMS



CIRCULAR CLIMBING GYMS

One of the earliest and strongest play instincts is the desire to climb. To satisfy this child desire is not only to give pleasure but also to develop a great variety of important muscles, especially those surrounding the vital organs.

Our CLIMBING GYMS meet all the requirements of safe and happy play.

There are no sharp corners, nor rough, protruding fittings. The circular form is especially safe and sightly, and requires no corner bracing, thus conserving space.

Made of hot galvanized steel pipe, ¾-in. inside diameter, $1\frac{1}{16}$-in. outside diameter. The fittings are hot galvanized steel, and there is nothing to rust or decay.

The legs are embedded in concrete 8 inches.

Shipped in built-up sections, making installation very simple and inexpensive. Blue prints furnished for erection.

Diameter, 7 ft. 4 in.; height, 8 ft. above ground; weight, about 325 lbs.; capacity, 25 children.

No. 387. Price 126.50

CIRCULAR CLIMBING GYMS

This device consists of a maze of climbing members, properly spaced, and when in use is literally alive with children. It has a chinning bar on the inside.

Shipped in built-up sections, making installation very easy. Blue prints furnished for erection.

Diameter, 8 ft. 6 in.; height, 8 ft. above ground; weight, about 400 lbs.; capacity, 25 children.

No. 388. Price 148.50

Diameter, 5 ft.; height, 8 ft. above ground; weight, about 160 lbs.; capacity, 15 children.

No. 390. Price 66.00

RECTANGULAR CLIMBING GYM

We here introduce a series of rectangular Gym Climbs, which have all of the basic structural features of the circular and oblong types elsewhere illustrated and described.

They are designed so as to permit addition of sections or units in order to increase sizes and capacity.

Because of the design, employing the hot galvanized steel, bolt-through fittings, positively no oblique corner bracing is necessary.

Made in five sizes as listed below:

No. 6-6. Height 8′; ground space 6′ x 6′; capacity 25; weight 400 lbs. Price 115.00

No. 6-8. Height 8′; ground space 6′ by 8′; capacity 35; weight 500 lbs., as shown. Price 143.00

No. 6-10. Height 8′; ground space 6′ by 10′; capacity 45; weight 600 lbs. Price 178.75

No. 10-10. Height 10′; ground space 10′ by 10′; capacity 70; weight 1000 lbs. Price 295.00

No. 10-12. Height 10′; ground space 10′ by 12′; capacity 90; weight 1350 lbs. Price 350.00

OBLONG MONKEY JUNGLE

THE KING OF ALL CLIMBING DEVICES

As the name implies, this climbing device would be a delight for a monkey, and surely is a real joy for swarms of happy children, climbing and squirming through the maze of smooth, rounded, hot galvanized steel pipe members.

It is a real jungle and will afford untold hours of most happy, healthful and strength-building fun.

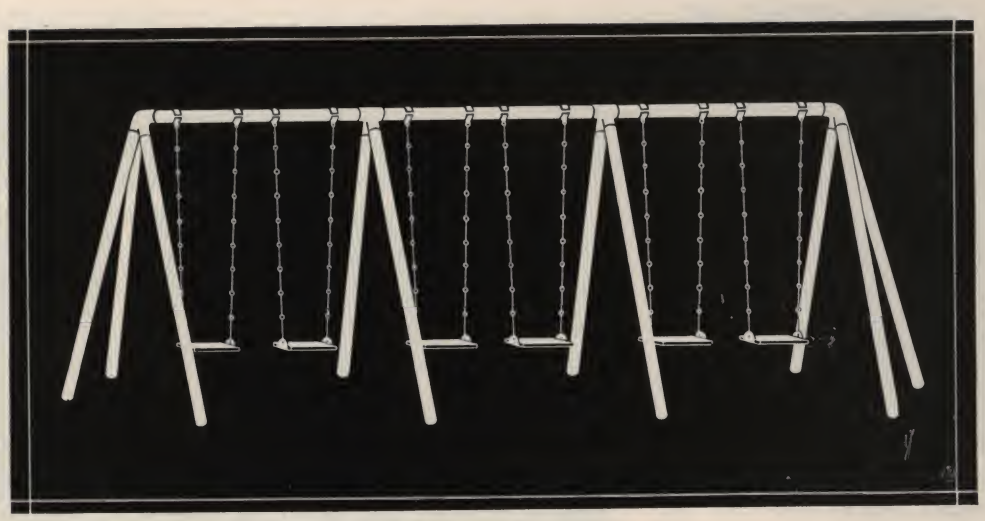
Length, 12 ft. 6 in.; width, 8 ft. 6 in.; height, 10 ft.; capacity, 60 children; weight, about 900 lbs.

No. 389. Price 325.00

Complete information furnished on request

OUTDOOR SWING UNITS

SIX SWING SET No. 394



The size of the horizontal frame pipe for swings is entirely determined by the length of span. A 2-inch pipe for shorter span is as rigid as a 3-inch of longer span.

This set is logically and correctly designed with short spans. The advantages are that there is ample strength and rigidity, and at the same time economy in the use of smaller pipe and fittings. There is also more of a separation of the children in swinging—an important feature.

The frame pipe and all other metal parts are hot galvanized. The frame fittings are of malleable iron, of the Split-Type. This is without doubt the best possible method of clamping a pipe, since it insures complete contact all around the pipe, and there is no abrasion of the pipe to cause rust and deterioration. Bolts are cadmium plated.

The swing-hangers have oilless bearings.

Choice is offered between heavy short-link weldless chain, and the use of links 11 inches long, made of ⅜-inch steel, all hot galvanized. Height above ground—12 ft.; length at top—30 ft.; length over all—40 ft.; weight—725 lbs.

No. 394. Complete with Short or Long Link Chain 144.20

EIGHT SWING SET No. 398

Construction same as No. 394 above except that there are 4 spans of 2 swings each.

No. 398. Complete with Short or Long Link Chain. Weight 875 lbs. 182.40

FOUR SWING SET No. 397

Construction same as No. 394 above except that there are only 2 spans of 2 swings each.

No. 397. Complete with Short or Long Link Chains. Weight 500 lbs. 106.00

HEAVY DUTY SIX SWING SET No. 396

The No. 396, known as the Heavy Type, uses 3-inch horizontal frame pipe, of long span, and 2-inch for uprights. Frame 12 ft. from ground.

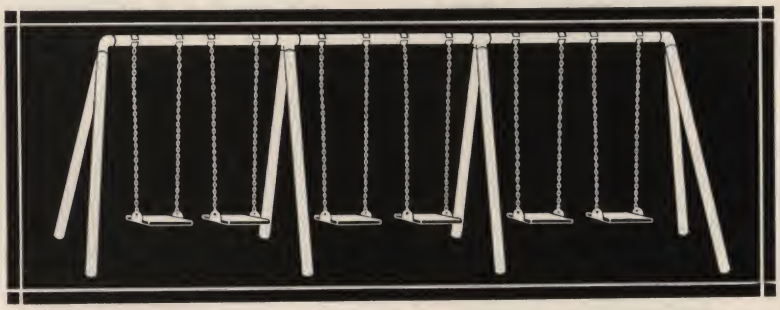
The swings, bearings, and materials are the same materials as used in case of No. 394. The length and height of frame are the same. The only difference is in the heavier pipe and frame fittings, and the longer spans, with fewer supports.

No. 396. Complete with Short or Long Link Chain. Weight 900 lbs. 158.10

HEAVY DUTY THREE SWING SET No. 393

Construction same as No. 396 except that there is only one span of three swings.

No. 393. Complete with Short or Long Link Chain. Weight 600 lbs. 98.45



SIX SWING SET No. 395

Identical with No. 394, shown at top of page, except the frame is only 10 ft. high instead of 12 ft., and the length of top of frame 27 ft. instead of 30 ft.

No. 395. Complete with Long or Short Link Chain. Weight 665 lbs. 131.40

EIGHT SWING SET No. 399

Same as No. 395 except that there are four spans of 2 swings each.

No. 399. Complete with Long or Short Link Chain. Weight, 810 lbs. 166.40

FOUR SWING SET No. 400

Same as No. 395 except that there are only 2 spans of 2 swings each.

No. 400. Complete with Short Link Chain only. Weight 510 lbs. 96.40

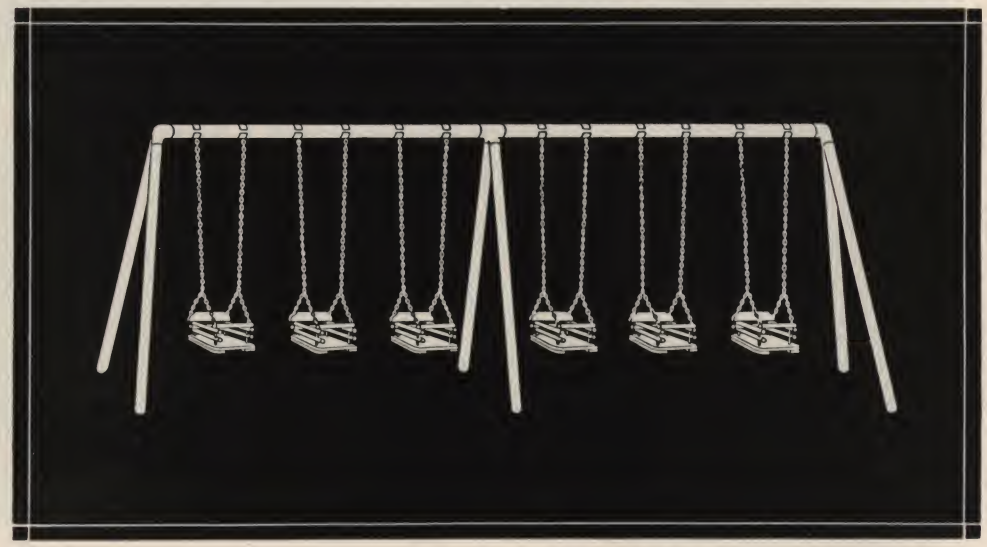
COMBINATION OUTFITS – CHAIR SWINGS

CHAIR SWING SET

The Chair Swing is adapted to the use of children of ages from two to five years.

The frame is made of 2-inch horizontal and 1½-inch upright pipe, inside diameter. All metal parts hot galvanized steel and malleable. Frame fittings are split-clamp type; identical with those used on larger frames.

Swing hangers have oilless bearings. Swings have Douglas Fir seat boards with hard wood rungs, and back-rest. Chains, hooks, spacers and long eye-bolts or rods of hot galvanized steel.



Length of frame at top . . 20 ft.
Length over all . . . . . 23 ft.
Height from ground . . . . . 8 ft.

No. 438. Six Swing Unit. Complete. Weight 375 lbs. 104.80

No. 438-3. Three Swing Unit. Complete. Weight 295 lbs 56.90

COMBINATION OUTFITS

No. 429 OUTFIT

A very attractive and substantial outfit. It meets the demands of wide age-range, and offers proper facilities for many play activities.

All individual items are standard weight and design. The swinging parts all have oilless bearings, and all metal is hot galvanized.

Items included: 1 Standard 10 ft. See-Saw Board, with fittings; 1 Sixteen-foot Slide, all metal, complete with steel and malleable stairway, platform and handrails; 1 All-Steel Trapeze; 1 Pair Aluminum Flying Rings; 2 Standard Swings.

Height of frame, 8′; height over all, 10′ 6″; length over all 26′ 6″.

No. 429. Outfit complete with All Metal Chute. Weight 750 lbs. 200.40

No. 429. Same with Stainless Steel Chute Bedway 232.40

No. 428 OUTFIT

Same construction as above but includes following items:

1 Trapeze, 1 Triple Trapeze, 2 Swings, 2 pairs of Aluminum Rings.

Height of frame, 10 ft.; length overall, 37 ft.

No. 428. Outfit complete, weight 670 lbs. 146.35

No. 425 OUTFIT

Same construction as above but includes following items:

1 10′ Seesaw, 1 Steel Flexible Ladder, 2 Steel Climbing Poles, 2 Swings, 1 Triple Trapeze, 1 pair Aluminum Rings, 1 Horizontal Bar.

Height, 12 ft.; length over all, 39 ft.

No. 425. Outfit complete, weight 825 lbs. 193.80

No. 434 OUTFIT

Same construction as above but includes following items:

2 Swings, 1 Trapeze and 1 pair of Aluminum Rings.

Length over all, 19 ft.

No. 434. 8 ft. complete, weight 300 lbs. 65.25

No. 434 H. 10 ft. complete, weight 330 lbs. 71.60

Many other outfits are available. Write for complete catalog.

STATIONARY AND PORTABLE SLIDES

ALL METAL SLIDES

Every part of this slide is normally made of metal. The platform is made of perforated and corrugated bronze or aluminum, 10½" x 21½". All other parts are hot galvanized steel and malleable iron except the bolts which are cadmium plated.

The side-rails are in the form of a lengthened D-section, 4 inches high by 1¼ inches thick, formed to a very easy and correct curve for landing. The stairway risers, supports and hand-rails are made of standard hot galvanized steel pipe, and the stairway treads are malleable, flat, corrugated and perforated. The bedway of chute is hot galvanized Armco Iron, with heavy galvanized steel battens underneath, tying securely and rigidly the side-rails.

Neither bolts nor screws are within the reach of the hands or body of the user during normal use. A hot galvanized steel "apron" attaches the chute to the platform, and serves to protect the end of the chute and to make a more comfortable approach. Note the continuous protective hand-rails.

STRAIGHT CHUTE SLIDES

No. 412. 12 foot, stationary, galvanized bedway	114.00
No. 412. 12 foot, stationary, stainless steel bedway	138.00
No. 412. 12 foot, portable, galvanized bedway	124.00
No. 412. 12 foot, portable, stainless steel bedway	148.00
No. 410. 16 foot, stationary, galvanized bedway	136.00
No. 410. 16 foot, stationary, stainless steel bedway	168.00
No. 410. 16 foot, portable, galvanized bedway	146.00
No. 410. 16 foot, portable, stainless steel bedway	182.00
No. 420. 20 foot, stationary, galvanized bedway	180.00
No. 420. 20 foot, stationary, stainless steel bedway	220.00

WAVE CHUTE SLIDES

No. 410. 16 foot, stationary, galvanized bedway	148.00
No. 410. 16 foot, stationary, stainless steel bedway	180.00
No. 410. 16 foot, portable, galvanized bedway	158.00
No. 410. 16 foot, portable, stainless steel bedway	190.00
No. 420. 20 foot, stationary, galvanized bedway	195.00
No. 420. 20 foot, stationary, stainless steel bedway	235.00

DOUBLE CHUTE SLIDES

Many types of Double Chute Slides are available. Please write this office or contact our representative.

HORIZONTAL LADDER

Simple in design, weather-proof, and practically indestructible. Hot galvanized steel and malleable iron throughout.

The Senior employs 2-inch pipe for both horizontal and vertical members, and is 15 ft. 4 in. long and 7 ft. above the ground.

No. 418. Complete. Wt. about 300 lbs. Price 70.00

The Junior uses 1½-inch pipe, vertical and horizontal, and is 12 ft. long and 6 ft. high.

No. 418J. Complete. Wt. about 200 lbs. Price 48.00

TRIPLE HORIZONTAL BAR

This outfit uses three pipe bars each 4 ft. long, and 1¼ inches outside diameter. These three bars are mounted at three different levels, for different ages, and are not adjustable, as this is not necessary.

There are four upright supports of different lengths made of 2-inch, hot galvanized pipe, with base flanges.

There are no protruding bolts whatever. This is an exceptionally durable and inexpensive outfit.

Height of highest bar, 7 ft; middle bar is 5 ft. 6 in.; lowest bar is 4 ft. high; length over all 12 ft. 8 in.

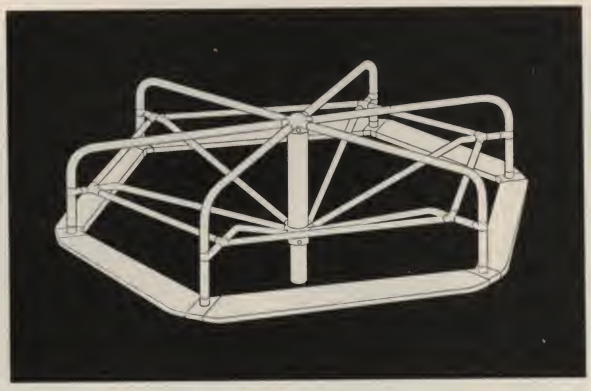
No. 440S. Special outfit complete. Wt. 180 lbs. Price 40.00

HORIZONTAL BAR

This outfit employs a cold-rolled, hot galvanized steel bar, which is 6 ft. from center to center of uprights. Galvanized malleable iron clamps attach bar to supports, and permit of adjustment for different heights.

The uprights are made of 2-inch pipe, each 10 ft. long, and are embedded in concrete 2½ ft. Base flanges and caps for the top are supplied.

No. 440. Complete set. Wt. 125 lbs. Price 27.00



This number is identical with the regular No. 402 shown above except that the seatboard is hexagon shape, with rounded corners, instead of circular, and is therefore not so wide.

Width of seat sections 9½ inches throughout, instead of being 16 inches in center.

Height, diameter, capacity, materials and labor required the same as No. 402. Weight about 400 lbs.

No. 402H. Price 110.00

LARGE MERRY-GO-ROUND

The frame, bearings, materials, and dimensions are the same as our regular No. 402, the only difference being that an extra angle iron frame for each floor section is provided, to which is fitted a heavy wood deck, thus making a completely enclosed job.

Each deck section is a complete unit, assembled at the factory, and very easily installed.

It is absolutely safe, and permits the children to play all over the device, thus adding to the fun, safety and capacity.

Height, diameter, materials and labor required the same as No. 402 above. Weight about 700 lbs. Capacity 40 children.

No. 402E. Price 200.00

WAVE SWING

A device that combines the fun and vigorous exercises of both the Giant Stride and Ocean Wave.

The children hold to the hand-rail and propel themselves by kicking against the ground, thus securing both a wave and a revolving motion. It can be operated by one child.

Hot galvanized steel and malleable iron construction.

The head has a heavy thrust ball-bearing, with positive lubrication.

The inside lower ring serves as a bumper, and insures freedom from accidents.

Height, above ground 9 ft. Height to ring 4½ ft. Pipe for ring ¾-in. Diameter of outer ring, 7½ ft.

Chains, No. 8-0 hot galvanized, with weldless links.

Pipe support 3½ in. and 12 ft. long, embedded in concrete 3 ft.

Diameter inner ring, 6 ft. 4 in.

Capacity 1 to 12 children at a time.

No. 392. Complete, weight 235 lbs. 58.00

MERRY-GO-ROUND

Simple in design, safe in action, and durable beyond any reasonable demands.

The seat is circular, thus eliminating danger of children getting bumped by corners. It is made of best quality lumber 2 inches thick, and 16 inches wide at widest part, and 9 inches at narrowest. The edges are neatly rounded for comfort and appearance. Painted with three coats high-grade enamel.

Hand-rails and protective railing are made of 1-inch pipe, inside diameter, or 1⅓ inches outside, and are conveniently located.

All metal parts are hot galvanized, preventing rust and decay. The fittings are malleable iron.

The bearings are large ball bearings of the thrust type, and are so efficient that one child can operate the device. The lubrication employs grease cups, and is entirely positive.

The center shaft is 2⅜-inch. It is sheathed in a pipe. It is embedded in concrete. Blue prints furnished for erection.

Height over all, 44 inches. Diameter, 10 ft. Capacity, 30 children. Weight, about 475 lbs.

No. 402. Price 145.00

OCEAN WAVE

Owing to its great capacity and popularity, the Ocean Wave is subjected to extremely hard use and abuse. Therefore, we would not consider building such a device except of the most sturdy construction. This is an item that simply cannot successfully be built to meet a low price.

Circular seat is made of 10 sections of Douglas Fir, 2-in. thick, 12-in. wide.

The head is very heavy, consisting of a socket driven into the pipe support, and a hood with heavy steel pivot projecting down into cup filled with oil. Lubrication is thus positive.

The supporting rods are ⅝-in. steel, which hook into the head above and are attached to 1⅜-in. hot galvanized steel connection below.

An inner protective circle, made of smooth steel, prevents seat board from contacting post, and insures safety.

Hand rails are hot galvanized steel pipe, $1\frac{1}{16}$-in. O.D. Hot galvanized malleable fittings clamp seat boards together.

Post is 4-in. I.D. (4½-in. O.D.) hot galvanized steel pipe, 13-ft. long.

Diameter of circle, 12-ft. Height above ground, 10-ft. Capacity, 40 children. Space required for safe use, a circle about 30 feet in diameter.

No. 900. Complete, weight 640 lbs. 207.50

PLAYGROUND UNITS

SEE-SAW OUTFITS

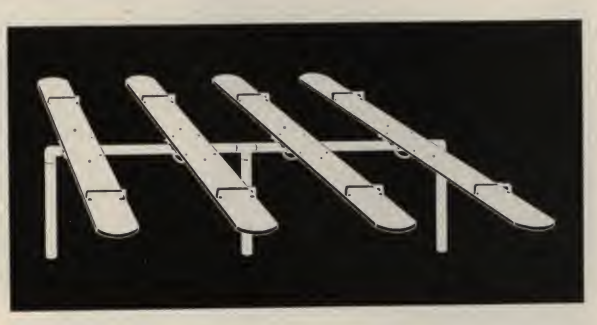
The See-Saw or Teeter-Totter is another device that appeals to the primitive play instinct of children.

For best service they must be strong, durable, mounted at the proper height, and adjustable.

The length of span of the frame is important in order that there may be no sagging. We guarantee that our frames will not sag under the heaviest load.

The frame is entirely made of hot galvanized steel and malleable iron. The pipe is 2-in. diameter for Nos. 412, 414 and 415.

The boards are made of select, clear Douglas Fir, free from knots and defects. There is no rosin to exude and soil the clothing. The corners and ends are rounded. Fitted with two notched fulcrum fittings of hot galvanized malleable iron, thus permitting adjustment for different weights of children. Chains prevent lifting of board from frame. Furnished with hot galvanized malleable or special aluminum alloy hand-holds.

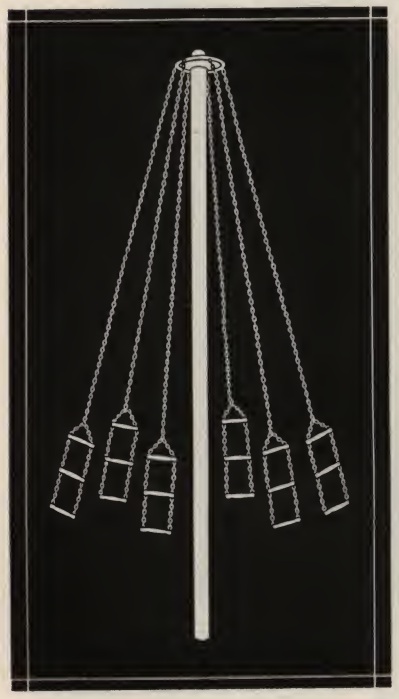


No. 414. Two Board, complete, weight 270 lbs. 46.35

No. 412. Four Board, complete, weight 480 lbs. 91.25

No. 415. Two Board Portable, complete, weight 240 lbs. 57.00

STRIDE UNITS



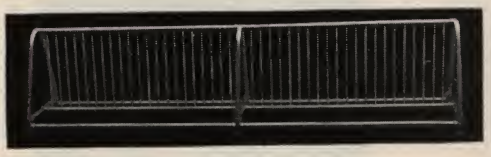
As illustrated this device has six ladders, though four or eight may be used. The head has a ¾" thrust ball-bearing, packed in grease. Ladders made of hot galvanized weldless chain and furnished with either aluminum or wood rungs.

Space required for safe use about 30 ft. diameter circle.

Height above ground 12 ft. Pipe required 1 pc. 4-in. 15 ft. long. Complete weight 240 lbs.

No. 420. Complete weight 240 lbs. 58.00

BICYCLE RACKS



We believe that this is the best design and best value of any Bicycle Rack on the market.

Frame made of 1⅔-in. O.D. standard steel pipe, with ⅝-in. O.D. spacers. See listing below. Frames hot dipped galvanized. Cadmium plated bolts. Fittings all either hot galvanized malleable or aluminum.

Frames are either duplex, for bicycles on both sides, or single-side, to fit location. The frames (1⅔-in.) built in 10-ft. sections, or assembled in any multiple of 10-ft. lengths.

Main section shipped completely assembled. Requires but a few minutes to attach side braces, by means of split-clamp fittings. Height, 33-in.; lengths, 10-ft. and any multiple of these; width, 31-in.

Unlimited Durability. Simple in Design. Portable. Sightly. Capacity for 10-ft. section, duplex 20; single side 10.

TWO SIDED UNITS

No. 5000. 1st section 55.00

No. 5000. Additional sections 46.00

SINGLE SIDED UNITS

No. 5001. 1st section 40.00

No. 5001. Additional sections 34.00

Write for Complete Illustrated Catalog

BASKETBALL BACKSTOPS

PORTABLE FOLDING BACKSTOPS

Where the regulation playing floor is much smaller than the total floor space, and where attachment to wall, balcony or girders is impossible, or inconvenient, the Portable Type is the logical frame. This readily takes the place of the Wall or Swing-up Types.

Our No. 50-FS is admirably adapted to this use. The base is made of pipe and angles in pairs. This arrangement not only provides for great strength and rigidity but makes possible the best attachment of the heavy, ball-bearing, rubber-shod casters. Base is 6 ft. 3 in. by 6 ft. 9 in.

Adjacent to each of the four casters a foot or base is attached to the frame. By means of a heavy machine screw this foot is pressed down against the floor, thus raising the caster free from the floor. Now the frame is immovable, and no floor plate is needed. This design also permits of adjustment, so that, although the floor may not be level, the frame can readily be made level and the backboard thus perpendicular.

The frame superstructure is made of standard steel pipe, with malleable iron or bronze fittings. The bracing is of such a nature as to prevent vibration in use.

For convenience in storing, the frame is neatly designed for folding.

Weights of about 250 pounds, for stabilizing frame, may be either ordinary concrete building blocks, or sand bags, either of which may be secured locally at a minimum cost.

WALL TYPE BACKSTOPS

Sometimes it is desirable to use a swing-up feature in connection with the extended Wall Type Frame. In such case a winch, steel cable and pulleys are supplied, and also two guy cables.

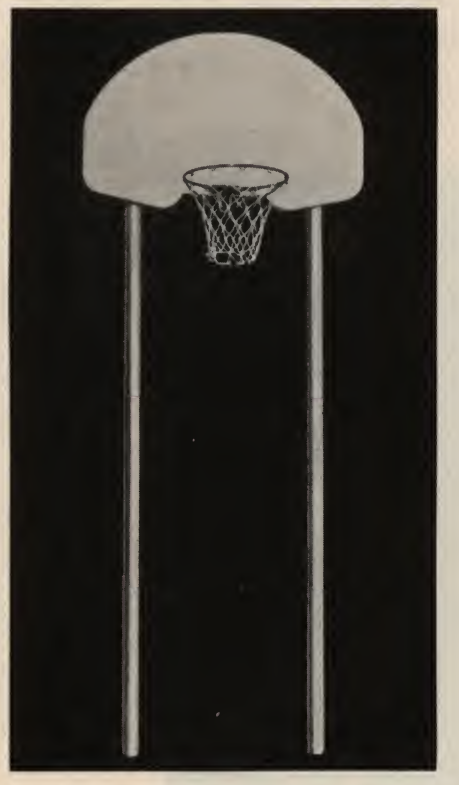
Additional boards for attachment to wall are supplied. The general construction, including backboard and bracing, are the same as in case of the ordinary Wall Type.

Hinged fittings are provided, which make the folding easy, and yet an absolute rigidity is maintained.

Any extension up to seven or eight feet may be used with complete satisfaction. Ordinarily the extension would not be less than four feet for this type.

Write for prices and complete literature.

OUTDOOR BACKSTOPS

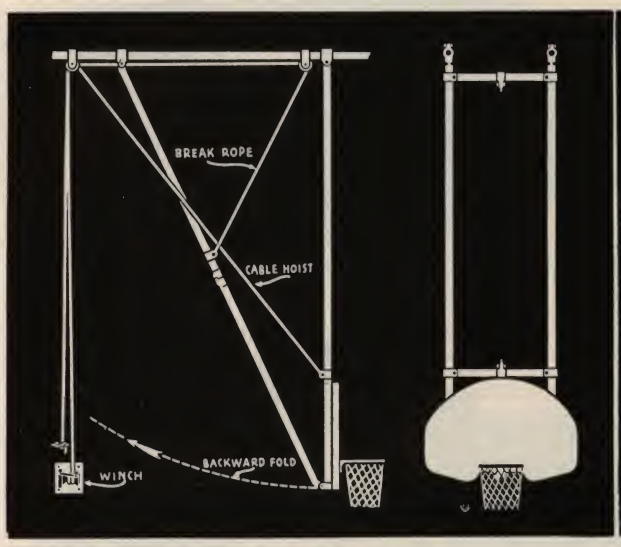


There is a definite trend among our customers to specify the all-metal fan-shaped backboards, both for indoor and outdoor use.

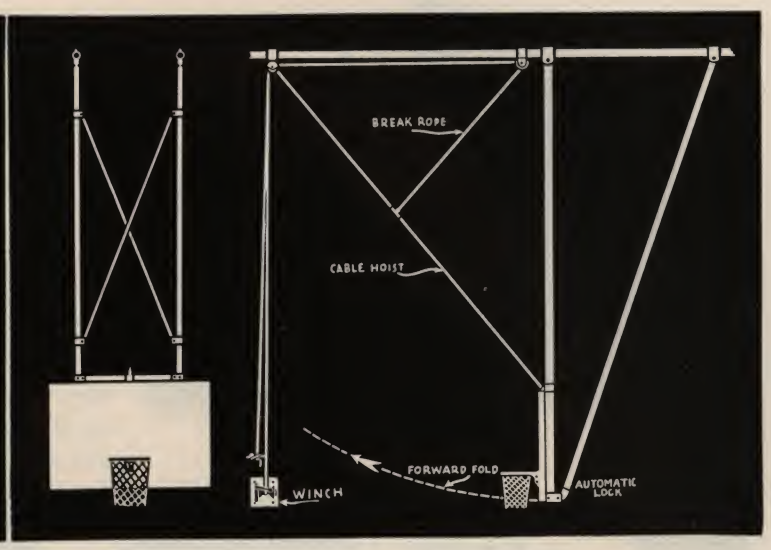
As illustrated above this backboard is mounted on two hot galvanized steel pipe supports, each 2⅜ inches outside diameter and 2 inches I.D., and these are embedded in concrete. They have a top cap, and have base flanges below. Embedded three feet.

All attachments and fittings supplied.

BASKETBALL BACKSTOPS



Backward Fold Type



Forward Fold Type

The Swing-up Type of Frame is made for either forward or backward fold. Perfect lock-hinge action, with complete rigidity, is assured.

By means of steel cable and friction winch, which is attached to the wall, these frames are readily folded.

There is also a rope attached for breaking joint when folding. When winch is reversed the frame swings back into place in complete alignment and with perfect rigidity.

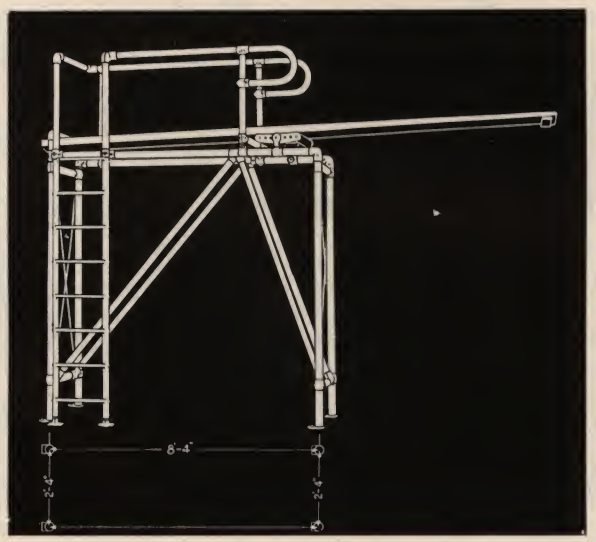
Owing to the fact that gymnasium structural designs vary, it is necessary for us to have blue prints or sketches, or else full information as to: (1) Height of beams from floor level; (2) Dimensions, material, and spacing, on center, of beams or trusses; (3) Floor layout showing location of backboard in relation to walls and beams above.

In most cases auxiliary pipe and beam clamps are required. These auxiliary pipes are attached to the beams or girders at right angles by means of our beam clamps. Since there is no uniform span between the girders or beams we cannot set a uniform price for such auxiliary equipment. We therefore quote the frames without this equipment, but upon receipt of the necessary measurements, we are prepared to make complete quotation.

As in case of all types of frames, we can furnish Plywood, 4′ x 6′ size or Fan-Shaped Steel Banks.

The goals furnished are only the accepted regulation, official type, braceless and underlaced.

BEACH AND SWIMMING POOL EQUIPMENT



A complete line of Pool Equipment is available. Please request new complete catalog and prices.

ELECTRIC SCOREBOARDS AND TIMERS

Model N-585

Model N-585-2

Model N-595-IV

Model N-585-2

Model N-565

MODEL N-585 BASKETBALL SCOREBOARD

A scoreboard designed and built for use in the larger gyms and field houses. Board is 72″ long, and 42″ high. Constructed entirely of steel and finished in black with white trim. The scoring numbers are 12″ high and are formed by ¾″ red electric bull's eyes. The clock face is made of a non-shadow, non-breakable, translucent material, is 30″ in diameter and is available in 8, 10, or 20 minute quarters.

An indirect lighting system shows a white background in clock face when time is in, and changes to red when time is out and time clock is stopped. Red lights on top of board come on with the horn only when time out is indicated by the timer's table. Clock has automatic horn. and automatic brake. Board furnished with extra loud resonating horn. Equipped with slide so team names can be inserted. Scoring mechanisms can be removed without moving board from position in gym. Specify quarter timing desired.

Model N-585 ..... 310.00

MODEL N-585-2 BASKETBALL SCOREBOARD

This board is suited for large field houses and coliseums where spectators are seated on two sides of the playing floor. Information and specifications for this board are the same as for the Number N-585 scoreboard. The clock, scoring mechanisms, and the quarter indicators are synchronized to operate together. Scoreboard's faces are set at an angle to be easily read from both sides.

Model N-585-2 ..... 590.00

MODEL N-585-4 BASKETBALL SCOREBOARD

This board has same mechanical specifications as Model N-585 and N-585-2, except that the board has four scoring and timing faces to enable spectators seated on any side of the playing floor to see the board.

Model N-585-4 ..... 1,185.00

INSTANT-VUE CLOCK SCOREBOARDS

Models N-585, N-585-2, and N-585-4 are available with Instant-Vue Type Timing clock. This type is illustrated above on Model N-595. This Type clock allows the playing of 8, 10, or 20 minute quarters on the same clock.

Model N-595-IV—One Face 395.00

Model N-595-2IV—Two Faces 735.00

Model N-595-41V—Four Faces 1,395.00

MODEL N-525 BASKETBALL SCOREBOARD

This model is designed to meet the demand for a low priced scoreboard for smaller gyms. Size 72″ x 28″. 26″ Clock. Automatic horn, and lights.

Model N-525 ..... 169.00

MODEL N-565 BASKETBALL SCOREBOARD

A scoreboard designed to meet the demands for an all-around scoreboard for the average gym. Board measures 76″ long by 36″ high. This board is equipped with vibrating horn. Other specifications are the same as for the N-585 shown above.

No. N-565 ..... 270.00

Ten feet of Control Panel cable is furnished with each of the above boards. Extra cable 25c per foot plus a $2.00 plug and connection charge.

Send for Complete Illustrated Catalog.

FOOTBALL SCOREBOARDS

MODEL N-400D FOOTBALL SCOREBOARD

The N-400D, the finest scoreboard obtainable, is designed and manufactured to be used on any size or type of playing field. Board features the famous "Instant Vue" numbers known and recognized throughout the sport world. Scoring numbers are two feet high and are formed by electric bull's eyes in a true rounded number that is more easily read than the block type number. Score is easily visible over 1,000 feet. Each mechanism is enclosed in a waterproof steel cabinet, giving perfect protection against all kinds of weather. Home, visitors, down, and yards to go, are finished in lettering 16 inches high. The remainder of the lettering on the board is 12 inches high. The score, time and quarters are operated from the official timer's table and the downs and yards to go are operated by a control panel directly from the line of scrimmage. The clock consists of a brilliant white clock dial, with a black minute hand and a red second hand, and has a heavy duty, reversible, synchronous clock motor. 8′ Diameter Clock Dial.

Overall size of the board is 18 feet long and 12 feet high. Face of board is constructed of heavy gage aluminum.

No. N-400D 1,265.00

MODEL N-400IV FOOTBALL SCOREBOARD

This model has the same basic specifications as the Model N-400D above. The Instant-Vue Numbers are furnished in place of the clock dial.

(Includes complete installation with the exception of the steel uprights upon which the board will be placed.)

The extra cable which runs from the scoreboard to the junction box at the 50 yard line is obtainable at 25 cents per foot, plus a $2.00 connection charge. The extra cable for the down and yards to go control sells at 13 cents per foot. Both of these cables are shielded and have an extra heavy rubber covering that gives it unsurpassable durability.

No. N-400IV 1,425.00

Send for Colored Illustrated Catalog and Prices.

Model N-400D

RECENT SCOREBOARD INSTALLATIONS

BASKETBALL SCOREBOARDS

Sligo Boro School Dist. (N-565)
Bessemer High School (N-565)
W. Allegany High School (N-585)
Sanford Prep. School (N-565)
Reynoldsville School Dist. (N-565)
Johnsonburg High School (N-585)
Warwich Twp. High School (N-565)

FOOTBALL SCOREBOARDS

Correy Jr. High School (N-400D)
Gettysburg High School (N-400D)

MODEL N-400B FOOTBALL-BASEBALL COMBINATION SCOREBOARD

The N-400B consists of the Naden Model N-400D football scoreboard with an additional apron at the bottom to show score by innings. This includes 45 placards with 10 inch numbers on the front and back for use in scoring. The Down, Quarter and Yards to Go units are especially built so that the mechanisms can be used to show the balls, strikes and outs. Balls, strikes and outs placards which can be placed over the football lettering are included. Cable requirements are the same as required for the N-400D football board.

(Price includes installation on the field with the exception of the steel posts upon which the board will be placed.)

WINDOW SHADES

MASTERMADE DOUBLE ROLLER WINDOW SHADES

Eliminate harmful glare! ***Get perfect light control!***

Mastermade Double Roller Window Shades effectively remove harmful glare and provide proper control of natural illumination in your classrooms. This is done by scientific "top-lighting"—mounting two shades on separate rollers at the middle of the window. One controls the light in the upper half of the window; the other controls the light coming in the lower half.

This gives you an ample amount of natural light coming in the top third of your windows, flooding the room with adequate illumination, and reduces the glare which is so injurious to the eyes. Mastermade shades break the direct rays of the sun and transform them into a soft, diffused light that fills every corner of the room.

Mastermade Shades will give you longer wear

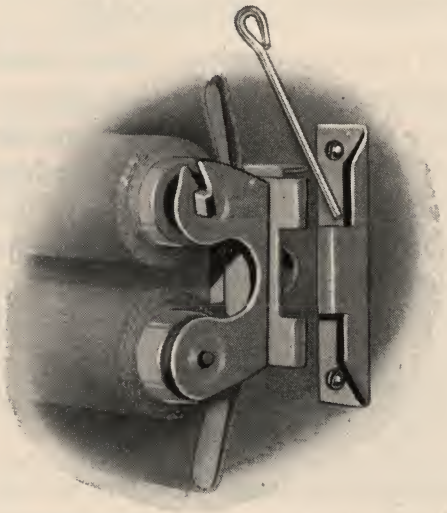
Mastermade Shades will give you extra years of wear because Mastermade Cotton Duck is heavier than ordinary fabric. Won't crack or pinhole, since no clay, starch, or other filler is used. It's not affected by moisture, dryness or climatic conditions. It's preshrunk, and can be washed, cleaned by brushing, vacuuming, or dry cleaning.

Each shade is hemmed top and bottom. Edges reinforced to prevent raveling. Slat pockets reinforced and slats are oversize for extra strength. Endless, hard-braid, non-stretch cord is attached at top and bottom with rust-proof snap-on fastener.

Strong metal light shield, with double-crimped edges, riveted to brackets. Has ¾" adjustment in width. Rust-proof alloy lock pulley holds shade at any level. Mastermade shades mounted on highest quality wood or metal rollers with oversize springs for extra power.

DEMOUNTABLE FEATURE makes window maintenance easy

The entire bracket assembly of the Style GA Mastermade Double Roller Window Shade is easily and quickly removed. Simply pull out the pin and the shade swings aside—either the left or the right pin may be removed. The shade may then be swung out from the windows, or it may be removed from the brackets. The windows are then clear for washing, glass replacement, painting or similar repairs. Together with the demountable pulley bracket, the entire shade assembly may be removed without tools.



STYLE "GA" MASTERMADE DOUBLE ROLLER SHADE WITH DEMOUNTABLE BRACKETS

Style "GA" Mastermade Double Roller Shades with Demountable Brackets.

The finest type of window shade you can buy. Meets every requirement for effective schoolroom light control. Transmits light, but removes harmful glare. Not affected by climatic conditions, and may be washed or cleaned. Completely assembled ready to hang. Includes shades, rollers, demountable brackets, light shield, pulleys and cords.

STYLE "DR" MASTERMADE DOUBLE ROLLER WINDOW SHADE WITHOUT DEMOUNTABLE BRACKET

Gives all the advantages of top-lighting and light distribution that is found in Style GA, but does not have the convenient demountable brackets. Same construction and materials as Style GA, but fixed steel brackets are permanently attached to light shield. Completely assembled ready to hang.

Style DR Conventional Non-Demountable

WINDOW SHADES

MASTERMADE SINGLE ROLLER WINDOW SHADES

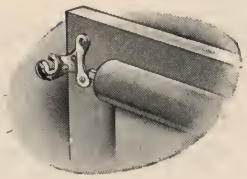
STYLE A

The unlimited adaptability, simplicity of operation, and economy of the Style A contribute greatly to its popularity. Use Mastermade Style A shades for regular windows, French windows, over transoms, tilting windows, or swinging windows. Because of this adaptability these shades are used by hospitals, offices, apartment buildings, and industrial plants. Style A is a non-adjustable spring roller shade, mounted on guaranteed rollers which operate on steel brackets permanently attached at either the top or bottom of the window. When installed at the bottom to pull up, special lock pulleys are required to keep the shade under constant tension.

The shades may be mounted inside or made to overlap the casing. Mastermade shade cloth is used on all Style A shades. Write for prices or additional information or ask our representative for complete details.

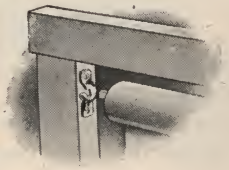
MASTERMADE BLACK COTTON DUCK SINGLE ROLLER SHADES

Style A shade is also available made of Mastermade Black Cotton Duck. This makes an excellent shade for visual education purposes where total blackout is not necessary.

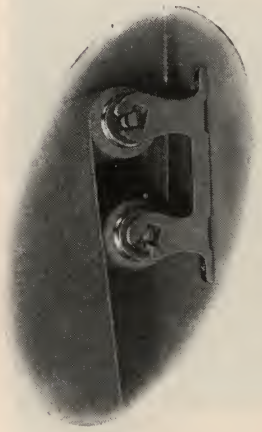


LEFT: Brackets used for outside mounting of Style A shades.

RIGHT: Brackets used for inside mounting of Style A shades.



STYLE AY
DOUBLE ROLLER WINDOW SHADES



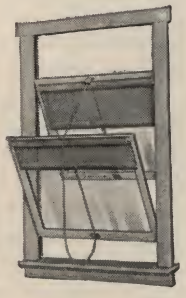
An economical way to obtain all the benefits of top lighting. Two shades are mounted on steel brackets and are attached directly to the window casing at the meeting point of the two sash. The shades overlap at the center of the window — the lower shade operates upward, and the shade mounted on the upper bracket operates downward, thereby eliminating the light shield.

Permits free circulation of air at all times. Made of genuine Mastermade preshrunk cloth. Rust-proof brackets, strong slats and rollers with strong springs for extra power.

STYLE H TILTING SASH SHADE

Gives Perfect Shading and Ventilation

Designed for use on Austral and other tilting sash windows of wood or steel. Shades perfectly and does not interfere with ventilation. Operates on eccentric extension pulleys attached to the upper rail of the upper sash and the lower rail of the lower sash. Shade is parallel to sash at any angle.



Mastermade cloth make this shade especially practical for swinging windows because it is wind and rainproof.

Write for additional information and prices on any of these types of shades. Give your window opening size when requesting prices.

DARKENING SHADES

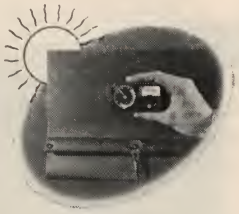
LITE-TITE DARKENING SHADES

Perfect Darkening for School Visual Education Programs, Assembly Halls, Auditoriums, Laboratories, X-ray Rooms, Photographic Studios, Etc.

Mastermade Leatherette is made especially for darkening purposes. It is built up on extra heavy fabric thoroughly impregnated with pigments. It positively will not adhere to itself, even when tightly rolled. It is black, light-absorbent and will not fade. Mastermade Leatherette is pliable, odorless, and will remain so throughout its entire life under all varying weather conditions.

BUILT FOR LONG LASTING SERVICE

This material is especially recommended for multiple units and wide shades. By our special method of manufacture the fabric on extra large shades is fused into one sheet, thus avoiding sewing with resultant needle holes, which are always apparent where several sheets are sewed together. Rollers are oversize with extra strong springs; oversize slats with cloth extension, cord and brackets insure long life and carefree operation.



TRY A LIGHT METER TEST

Tests using a light meter prove that Lite-Tite Darkening shades are 100 per cent opaque.

Recommended for darkening schoolrooms, auditoriums, assembly halls, laboratories, X-ray rooms, photographic studios, etc.

THE SHADE OF MANY USES

Use Mastermade darkening shades in school rooms for showing slides, motion pictures or using other visual education devices. Use them also in auditoriums, assembly halls, laboratories, X-Ray rooms, photograph studios and other places that on certain occasions must be darkened.

ROLLERS ARE OVERSIZE

There is no skimping in Lite-Tite quality. Lite-Tite Leatherette is heavier than regular fabric, so oversize rollers and springs accommodate this extra weight.

HEAVY SLATS

Since Lite-Tite darkening shades are heavier than regular shades, extra-large slats are used to hold the shade snugly in place. Note too, the extension at bottom.

WEARS AND WEARS— NEVER TEARS

Mastermade Lite-Tite fabric is exceedingly strong. It's almost tearproof. Pigment is deeply imbedded, thus eliminating pinholes.

For a 100 Per Cent Effective Darkening Shade Installation

LITE-TITE ALUMINUM CHANNELS

Here's new beauty . . . and increased darkening efficiency on any type of window with the new Mastermade Lite-Tite Extruded Aluminum Channels and Roller Housings. When used with Mastermade Lite-Tite Leatherette Darkening Shades, they'll provide a perfect way to exclude all the light from entering the room. They're ideal for auditoriums, laboratories, classrooms and other installations where total darkness is desired. When used together, no light can seep in at the sides or the top of the shade.

Made of smart appearing extruded aluminum, they are easily installed by any workman. Side channels provide "light-lock" channel in which the shade operates. Roller Housing provides complete cover for entire shade roller and prevents light from entering at top of window. All channels and housings have natural soft satin aluminum finish and are anodized to prevent discolorization, tarnishing and fingerprint marks. Channels retain luster for entire life of building.

LITE-TITE STEEL CHANNELS

Mastermade Lite-Tite Steel Channels and Housings are used with Lite-Tite Shades to provide an economical way to completely darken any room. May be installed inside or outside the window opening. All are custom built at factory to your specifications.

VENETIAN BLINDS

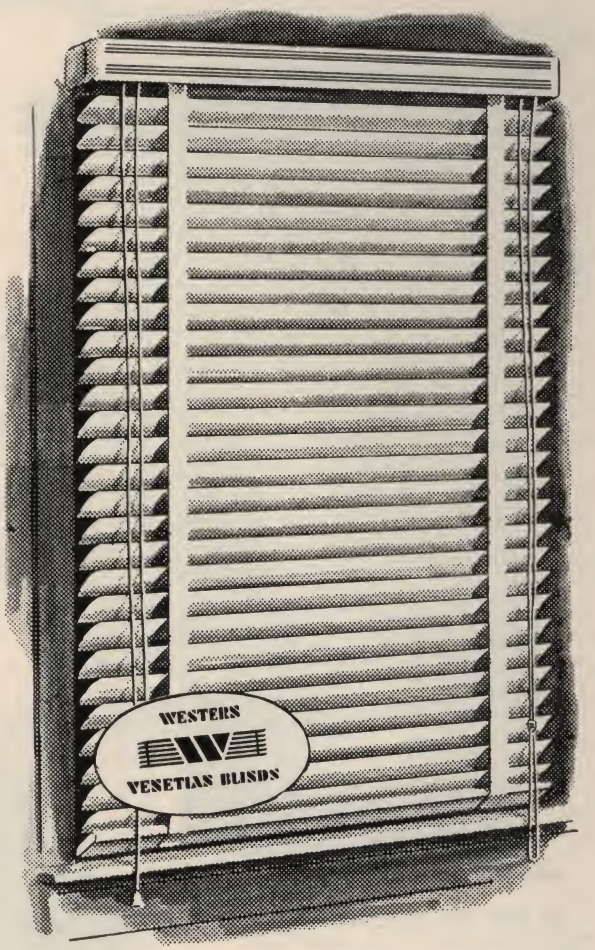
To combine modern beauty with light control, ventilation control, temperature control and long lasting economy, venetian blinds with flexible aluminum slats are required.

The slats are the finest quality flexible aluminum with baked on enamel finish in various colors. All corners of slats are treated to make them resistant to corrosion and provide the best surface for enamel adhesion. If desired, wood slats or flexible steel slats can be obtained.

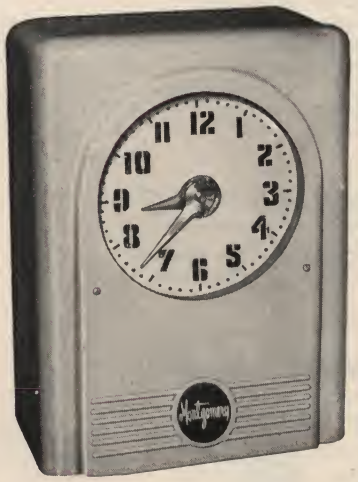
The tapes most desired are the new Vinyl Plastic type. Plastic tapes have cut down the cleaning costs considerably. Tapes are available in many colors either matching or contrasting to the slats.

The head mechanism is of the latest one piece header box enclosed type. This header box contains the self leveling mechanism, the tilting gears, and the positive stop raising and lowering device. The front of the header box is fluted to give a neat appearance. The entire blind can be easily removed from the blind hangers without the use of tools.

Our representative will gladly furnish you with complete prices and show the various colors of tapes and slats available. Write this office or contact our representative in your area.



PROGRAM CLOCKS



ONE TO FOUR CIRCUITS AVAILABLE

Illustrated here is the single circuit Montgomery Model M clock. Other models for two and four circuits are listed below.

PRICES

SINGLE CIRCUIT CLOCKS. Size 8", 11", 4".
Model M24 (5-minute interval, 24-hour cycle) 86.25
Model M12 (2½-minute interval, 12-hr. cycle) 86.25

TWO CIRCUIT CLOCKS. Size 8", 11", 4".
Model L24 (5-minute intervals, 24-hr. cycle) 116.50
Model L12 (2½-minute intervals, 12-hr. cycle) 116.50

THE ANSWER TO ALL INSTITUTIONAL AND SCHOOL SIGNAL CONTROL PROBLEMS

These synchronous program clocks are available in six standard models which incorporate the flexibility necessary to meet all accurate time scheduling requirements. Up-to-the-minute stylings plus the finest craftsmanship is offered in these modern, reliable program machines. These clocks will exactly follow any preset schedule and turn on and off signal bells, horns, lights, gongs, or other machinery.

Signaling system may be automatically or manually operated for fire or special alarm purposes without affecting the clock mechanism.

DISTINCTIVE FEATURES

1. Formed steel housing of attractive, modern design, finished in rich old ivory baked enamel that blends well with any equipment or furnishings.
2. Automatic calendar switch silences signals during any desired period.
3. The duration of signal is readily adjustable from 2 to 30 seconds.
4. Models available with either 12 or 24 hour program discs.
5. Program schedules easily set without use of tools. Program discs have 288 slots and up to that number of circuit operations per cycle can be obtained.
6. The program mechanism is automatically set by turning the clock hands, thereby assuring perfect synchronization of both.
7. Resetting of the clock does not disturb the preset program schedule.
8. Built to Underwriters specifications.
9. Automatic control can be cut out and the signal circuit manually operated by switches on the clock without affecting accuracy of the preset schedule.

Program Circuit Accessories

MODEL ATL-700 BELLS are of heavy duty, weather-proof construction, suitable for inside or outside use. They are designed without contacts for long service.

	8 or 12 volts	*24 volts*	*115 volts*
4-inch	33.00	22.00	27.50
6-inch	42.35	31.35	36.85
10-inch	55.00	44.00	49.50

*Not available for 8-volt service.

MODEL 161 BELLS are loud ringing and give good, dependable service. They have special large silver contacts and are for interior use only.

	6 to 12 volts	*24 volts*
4-inch	4.95	7.43
6-inch	6.05	8.53

MODEL 577 BUZZERS are small, well constructed. They produce ample sound for classroom use — are equipped with volume adjustment screw.

6 to 12 volts	3.96
24 volts	3.96

MODEL 122 and 124 HORNS are of the vibrating (klaxon) type and weatherproof construction. They produce a loud clear tone of volume equal to that of a 10-inch bell. They may be used as a fire alarm also. No. 124 is a two-way horn.

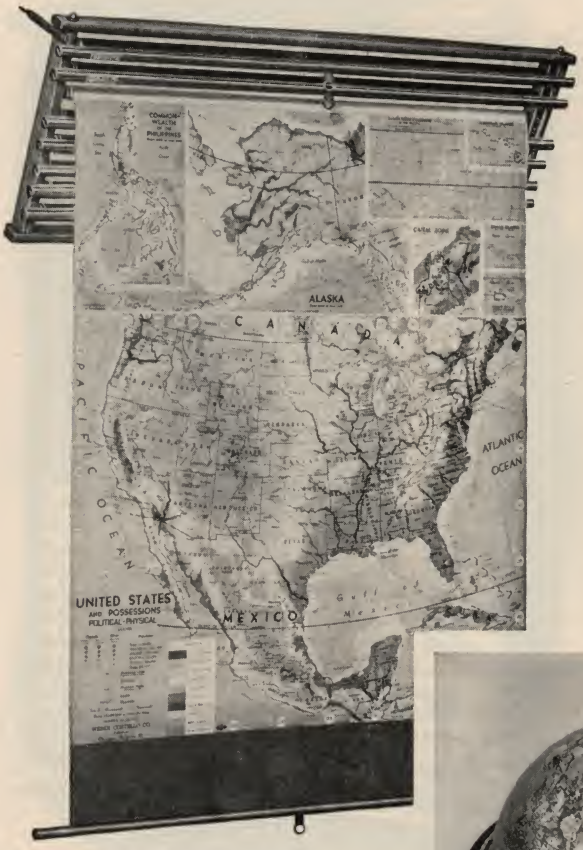
	12 volts	*24 volts*	*115 volts*
No. 122	31.90	27.50	27.50
No. 124	40.70	36.85	36.85

MODEL 100VA TRANSFORMERS have sufficient capacity to operate all of the signals required in the average installation. They are designed for reducing 115-volt, 50 or 60 cycle AC to 4- 8- 12- 16 volts or to 24 volts.

Price 11.00

NEW SEMI-CONTOUR SERIES

POLITICAL-PHYSICAL MAPS



LATEST BOUNDARIES. Every map has been newly drawn and printed from new lithographic plates. They contain only the latest world information.

NEW MOUNTAIN TREATMENT. You will be pleased by the realistic, semi-pictorial method of showing mountains, which is introduced in these maps.

UNUSUAL COLOR TREATMENT. The greens, yellows, buff and browns, denoting differences in elevation were selected on the basis of their strong carrying power and appealing beauty.

POPULATION PATTERN. These maps show only geographically important information, with an even distribution of population pattern.

DEFINITE IMPRESSIONS OF LOCATION. Equator and zone lines are plainly visible and easily legible numerals identify parallels and meridians.

USE OF ENTIRE MAP SHEET. Printed without borders, no part of the map sheet is wasted and the student gains the impression that the map he is studying is a part of the world.

The Ideal MAP and GLOBE Team

Because Semi-Contour Globes exactly match Semi-Contour Maps in their full, rich coloring, use the International Scheme of Contour Coloring to show elevation, and employ the same map symbols, they provide an excellent map and globe team. When the student has gained the proper concept of the earth's shape from his study of the globe, he can readily transfer his thinking to the map. He will recognize the familiar coloring of the flat map as a projection of the Semi-Contour Globe with which he is already acquainted.

NEW MAPS AND NEW GLOBES. Semi-Contour Maps and Semi-Contour Globes are freshly and completely new. This entire series has been extensively revised to show the many place name and boundary changes which have been agreed upon from the outbreak of World War II to the time this catalog goes to press.

A COMPLETE SET INCLUDES:

No.	*Title*	*Size*	*Scale of miles*
SC-1.	World (Hemispheres and Mercator)	40"x54"	660
SC-2.	United States (and Possessions	40"x54"	80
SC-3.	North America	40"x54"	120
SC-4.	South America	40"x54"	120
SC-5.	Asia (and Australia)	40"x54"	160
SC-6.	Africa	40"x54"	120
SC-7.	Europe	40"x54"	80

SINGLE MAP MOUNTINGS					*COMPLETE SETS*		
No. 10	*No. 12*	*No. 20*	*No. 16*	*No. 18*	*Porta-Pact Map Roll*	*Perfection Map Rack*	*Twin Display Map Rack*
Plain rollers at top and bottom $8.50	*Spring roller on backboard dustproof* $10.50	*Folded with eyelets, leatherette cover* $10.50	*Plain roller to fit your spring roller* $8.50	*Spring roller for your case specify length* $9.00			
Set of any 4 Semi-Contour Maps					$43.50	$46.50	$52.00
" " " 5 " " "					$52.00	$55.50	$62.50
" " " 6 " " "					$60.50	$64.50	$73.00
" " " 7 " " "					$69.00	$73.50	$83.50
Add for State Map					$12.50	$12.50	$14.00

STATE MAP

This state map is in all respects practical for classroom use. It portrays a wealth of information including railroads, highways, cities, towns and villages. Counties are shown in various colors. Marginal indices give population figures and make it easy to locate any urban center.

No. 10. Plain roller mounting 10.75

No. 12. Spring roller mounting 12.50

May be included in set of Semi-Contours (see above). Map 50x48".

COLORFUL NEW MAP SERIES

POLITICAL MAP SERIES WITH LATEST BOUNDARIES

New CARTOGRAPHY. Every map completely drawn by skillful cartographers to show latest information.

New TYPE FACES. Only new, simple, modern type faces were selected for the maps in this series.

New COLORS. The fresh, bright colors which characterize these new maps make them works of art, as well as authentic masterpieces.

New LEGIBILITY. Color selection, type faces, and superb color printing combine to set new standards of legibility.

New PLACE NAME DISTRIBUTION. Many place names, accurately located, indicate the population pattern.

New MOUNTAIN TREATMENT. You will be surprised by the realistic, semi-pictorial method of showing mountains, which is introduced in these maps.

New BORDERLESS SHEETS. The elimination of borders not only improves the appearance of the maps, but also makes use of the entire map sheet and gives the impression that the map is a part of the world.

New PUPIL INTEREST. Bright, new legible maps capture and hold the interest of the pupils—simplify the teaching process.

A COMPLETE SET INCLUDES:

No.	*Title*	*Size*	*Miles to the Inch*
C-1.	World	40"x54"	660
C-2.	United States	40"x54"	80
C-3.	North America	40"x54"	120
C-4.	South America	40"x54"	120
C-5.	Asia and Australia	40"x54"	160
C-6.	Africa	40"x54"	120
C-7.	Europe	40"x54"	80

PORTA-PACT MAP ROLL

A special patented mounting available only for these maps. A complete set of maps is mounted on a single, heavy duty spring roller, fastened with sliding eyelets and may therefore be mounted on nails, hooks or map rail. The desired map may be selected and brought into view as easily and quickly as you would operate a window shade. When rolled up, the maps are protected by a heavy canvas cover.

SINGLE MAP MOUNTINGS					COMPLETE SETS		
No. 10	*No. 12*	*No. 20*	*No. 16*	*No. 18*	*Porta-Pact Map Roll*	*Perfection Map Rack*	*Twin Display Map Rack*
Plain rollers at top and bottom $8.00	*Spring roller on backboard dustproof $10.00*	*Folded with eyelets, leatherette cover $10.00*	*Plain roller to fit your spring roller $8.25*	*Spring roller for your case specify length $8.75*			
Set of any 4 Champion Maps					*$41.50*	*$46.50*	*$50.00*
" " " 5 " "					*$49.75*	*$55.25*	*$60.00*
" " " 6 " "					*$58.00*	*$64.00*	*$70.00*
" " " 7 " "					*$65.25*	*$72.75*	*$80.00*
Add for State Map					*$12.50*	*$12.50*	*$14.00*

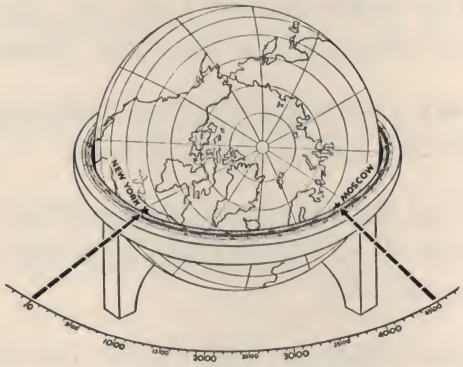
Set of 7 MAPS in the PORTA-PACT $65.25

POLAR VIEW GLOBES

EQUIPPED WITH GREAT-CIRCLE-METERS

THE "EDUCATOR"

Here the meter is being used to trace and measure the great-circle distance from New York to Moscow (4,600 miles). By simply rotating the globe ball, the meter may be used to measure the distance between any two points, degrees of latitude and longitude and time differences.



Also available in SEMI-CONTOUR Globe Maps—When ordering Semi-Contour Globes be sure to specify by placing the letters "SC" after the Model No. desired.

THE "EDUCATOR"

This is the most usable globe mounting ever devised. Has the "Great-Circle-Meter" and time dial mounted on the horizon ring. The globe ball may be freely rotated in any direction for tracing and measuring great-circle routes, or you may remove the globe and hold it in your hands for closer examination. Globe ball is mounted in a sturdy, attractive walnut finish base.

No. 2625SC	16" Semi-Contour Pol-Phys Ball	42.00
No. 2625	16" Political Ball	42.50
No. 2225SC	12" Semi-Contour Pol-Phys Ball	24.00
No. 2225	12" Political Ball	26.50

THE "GLOBAL-VIEW"

Globe balls rest in walnut finish bases of simple, modern design. Ball may be freely rotated or held in the hands. Comes equipped with a flexible tape ("Great-Circle-Rule") for accurate measurement of great-circle routes.

No. 2624SC	16" Semi-Contour Pol-Phys Ball	35.00
No. 2624	16" Political Ball	35.50
No. 2224SC	12" Semi-Contour Pol-Phys Ball	18.75
No. 2224	12" Political Ball	20.00

THE "GLOBAL-VIEW"

INEXPENSIVE MACHINE MADE GLOBES

These smaller globes are nicely colored and are recommended for individual instruction —every member of the class should have one.

No. 604

No. 604. 6" Polar View type, each 3.15

No. 808-S. 8" Semi-Meridian on metal stand, each 4.65

No. 808-S—8"

Fully colored and the source of a tremendous amount of world information are these machine made, political world globes.

No. 1212-S. 12" Semi-Meridian on metal stand, each 9.00

No. 1212-M. 12" Full and movable meridian on metal base, each 16.50

No. 1212-M—12"

REFERENCE GLOBES

MAKE TEACHING EASIER — MORE EFFECTIVE

PLAIN MOUNTING

MOVABLE MERIDIAN

DISC BASE FLOOR STAND

- **GLOBES SHOW LATEST WORLD INFORMATION**

These Globe maps have been extensively revised to show the many place, name and boundary changes which have occurred as a result of World War II.

- **ACCURATELY HAND-MADE AND HAND MOUNTED**

These globes are the product of over 60 years of globe manufacturing experience. They are accurately hand-made, hand-mounted.

- **BUILT TO WITHSTAND RIGOROUS CLASSROOM USE**

Precision-made globes are beautifully colored and superbly mounted on sturdy metal bases designed to withstand many years of rigorous classroom use.

- **COMPLETE GLOBE MANUAL WITH EVERY GLOBE**

With every globe comes a complete globe manual in which helpful teaching information and global facts are simply and understandably presented.

ALSO AVAILABLE IN SEMI-CONTOUR GLOBE MAPS

All the globes on this page with exception of the Slated Globe are also available with Semi-Contour Political-Physical Globe maps. When ordering Semi-Contours be sure to specify same by placing the letters "SC" after the model number desired.

HANGING MOUNTING

PLAIN MOUNTING

For many years a popular mounting because of its inexpensiveness and because it gives an unobstructed view of the globe ball.

No. 220	12" Political	23.50
No. 220SC	12" Pol-Phys	22.00
No. 430	16" Political	42.50
No. 430SC	16" Pol-Phys	40.00

MOVABLE MERIDIAN

A favorite globe for classroom use. The full and movable meridian allows the exposure of any part of the globe's surface, without moving the base.

No. 223	12" Political	26.50
No. 223SC	12" Pol-Phys	25.00
No. 433	16" Political	47.50
No. 433SC	16" Pol-Phys	46.50

DISC BASE FLOOR STAND

Adjustable for height, heavy enough to prevent accidental tipping and equipped with casters making it easy to move the globe from room to room.

No. 223M	12" Political	37.50
No. 223SCM	12" Pol-Phys	35.00
No. 433M	16" Political	55.00
No. 433SCM	16" Pol-Phys	53.00

HANGING MOUNTING

Shows the earth as it really is—floating in space. Comes complete with rope, pulleys, hooks, and moonball weight. Easily raised and lowered.

No. 227	12" Political	25.00
No. 227SC	12" Pol-Phys	23.50
No. 437	16" Political	47.50
No. 437SC	16" Pol-Phys	45.00

SLATED GLOBE

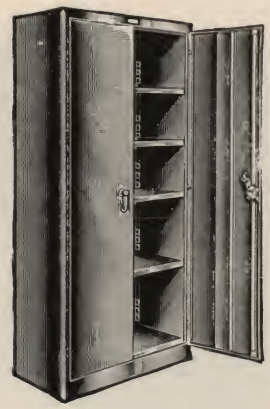
SLATED GLOBES

These spherical blackboards are indispensable for the teaching of geography, mathematics and navigation. A handmade globe ball is covered with our regular blackboard surface, which will not crack, check, peel or wear glossy. You write on them with chalk and clean with an eraser.

All mountings above are available with slated globes. Prices are the same as Political Globes. Specify "Slated."

STORAGE AND WARDROBE CABINETS

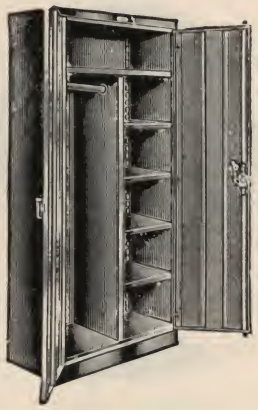
STORAGE



The most popular Storage Unit for general utility is this Storage Cabinet with its wide variety of uses. Standard Equipment consists of four adjustable shelves. Extra shelves may be quickly and easily added. With lock.

No. 8361S.	36″ W, 18″ D, 78″ H	71.36
	Extra shelves . . .	2.50
No. 4362S.	36″ W, 24″ D, 78″ H	78.27
	Extra shelves	3.25

STORAGE AND WARDROBE



A compact and convenient cabinet that provides both storage and wardrobe space in one unit. Standard equipment consists of full width hat shelf, four adjustable half-shelves, partition and coat rod. Additional half-shelves are easily installed.

No. 8361SW.	36″ W, 18″ D, 78″ H	75.60
	Extra Shelves	2.50
No. 4362SW.	36″ W, 24″ D, 78″ H	82.43
	Extra shelves	3.25

WARDROBE

This cabinet will accommodate ten to twelve coats for personnel in the larger offices or departments. It is ideal for lodge or church robes and for added closet space in the home. It is equipped with one hat shelf and coat hanger rod directly below.

No. 8631W.	36″ W, 18″ D, 78″ H . .	64.76
No. 4362W.	36″ W, 24″ D, 78″ H . .	69.89

COUNTER HEIGHT CABINETS

A handy all-in-one cabinet made of heavy gauge furniture steel. This cabinet combines two letter-size filing drawers with ball-bearing roller, four drawers for 4x6 record cards with a 6000 card capacity and a storage cabinet with adjustable shelves for supplies and record books. Storage compartment furnished with lock and key. Available in green or gray. 37½″ H x 30½″ W x 17½″ D.

No. 047	. . . . .	51.00
No. 047L (with locks on letter-sized drawers)	. . . . .	58.50

This cabinet is built for heavy use. Made of heavy gauge steel with two adjustable steel shelves, it is designed for efficiency throughout. The doors are thoroughly reinforced with a two-way locking device, controlled by a paracentric lock. Olive green baked enamel finish. 37½″ H x 30″ W x 17½″ D.

No. 934L	. . . . .	45.00

A sturdily constructed cabinet of heavy gauge steel, this piece is designed for many uses. It will keep your office supplies, catalogues and printed matter neat and orderly. It will improve the appearance of your office. Many use the above as a book case. It has two adjustable shelves. This comes in olive green baked enamel finish. 37½″ H x 30″ W x 18″ D.

No. 934S	. . . . .	29.95

STEEL LOCKERS AND SHELVING

These steel lockers possess a number of outstanding features that contribute to their superiority. Frames and doors are designed for strength and are more than adequately reinforced for permanent rigidity. This is important because the strength and life of a locker depend primarily on frame and door construction. Door operation must be dependable too. The easy, quiet latching of the door assures trouble-free performance and long wear. The attractive handle which operates this latching device is strong, tamper-proof and safe. Lockers can be furnished with or without legs, open or closed bases, flat or sloping tops, singly or in groups. When installed they can be free-standing on the floor or cement bases, or they can be recessed in walls.

SINGLE TIER LOCKER. This is the most widely used locker for the accommodation of clothing in all types of offices and industry, schools and clubs. In the larger sizes, a complete change of clothing for one person, including overcoat, etc., can be hung full length with ample room. Standard equipment includes one hat shelf.

DOUBLE TIER LOCKER. As a space saver the double tier locker compares favorably with the two-person locker. Where it is necessary to store street clothing for short intervals of time, as in gymnasiums or to store individual sporting uniforms and equipment, this type locker provides adequate accommodations. Many schools find the double tier locker a most practical solution to the problem of limited space. The construction, finish and equipment are the same as type above, except that no shelves are furnished. Three single prong coat hooks and one double prong ceiling hook under top of each compartment.

MULTIPLE LOCKERS. The multiple person lockers are conservers of floor space, and provide accommodations for any number of persons in a much smaller space than would be required for the same quantities of individual lockers. The hat compartment offers security for personal articles and valuables and the coat compartments, either enclosed or open, will accommodate coats of all uses. Each hat compartment is 12″ wide, 18″ deep and 12″ high. The coat space is equipped with $1\frac{1}{16}$″ outside diameter, galvanized coat rod held in place by flanges bolted to the sides of the end compartment. These lockers can be equipped with locks of either the flat key lock type with a double spring bolt, or a spring-bolt combination lock or padlock.

TWO-PERSON LOCKER. The two-person locker illustrated, is especially designed for use in cramped quarters or for any installation where a saving in floor space is an important consideration. Two persons are comfortably accommodated in the space usually allotted to a single person. Each locker is 15″ wide, 21″ deep by 73½″ high, without legs, and 78″ high with legs. It is divided into two coat compartments, each of which is 7½″ wide, 21″ deep and 54″ high. The two hat compartments are each 15″ wide, 21″ deep and 9″ high. The hat compartment can be opened only when the door of the corresponding coat compartment is open and it will lock automatically with it. Each coat compartment is provided with two single prong hooks and a coat rod.

STEEL SHELVING

The style illustrated herewith is one of the many types of steel shelving, both closed and open, that is available. Closed shelving of this type furnishes efficient storage protection against fire, vermin, dust and pilferage. The open type shelving is ideal for storage of paper, books, janitor supplies, etc. The shelving is easily erected and all shelves are adjustable to meet changing demands.

Consult our representative or write this office for complete details on your storage or locker problems.

FILING CABINETS

GRADE A

This high-grade heavy duty line incorporates every improved feature and constructional refinement resulting from a wide study of filing requirements. Nothing has been sacrificed to make these cabinets the most durable, convenient and efficient from a service standpoint. The outstanding features of these cabinets are briefly referred to under the following constructional specifications:

1. Fully reinforced casework—top, back, side panels and bottom.

2. Six vertical saddle reinforcements spot-welded to sides of cabinets preventing any possible chance of buckling when drawers are loaded to capacity.

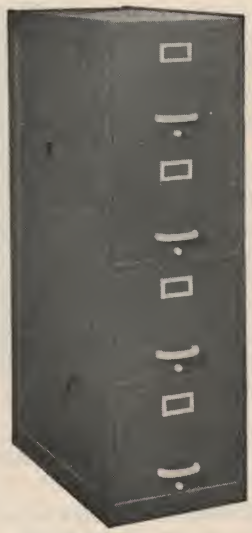
3. Cross members equipped with gussets on each end, which lock the two sides of case together as one unit, eliminating all possibility of torsion, under severe strain.

4. Full bottom plate to permit levelling on uneven floors.

All files 28½" deep; height, 4 drawer, 52"; 3 drawer, 40", 2 drawer, 30½".

No.		Without Lock	With Lock
77A01.	4 Drawer Letter	82.00	93.75
77A02.	4 Drawer Legal	93.75	105.75
77A31.	3 Drawer Letter	76.50	88.25
77A32.	3 Drawer Legal	84.00	96.50
77A21.	2 Drawer Letter	57.25	68.50
77A22.	2 Drawer Legal	62.75	75.00

GRADE B



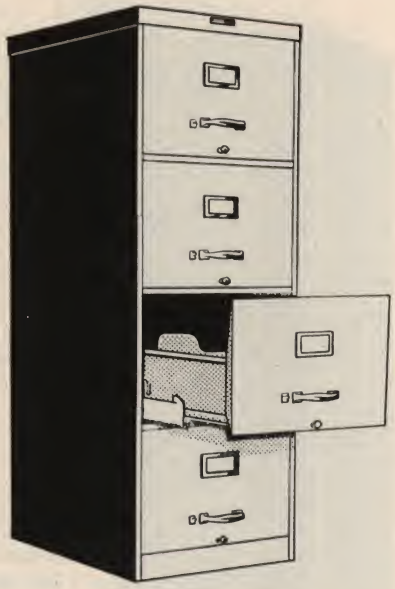
A full size cradle type progressive extension suspension file of sturdy construction. Corners and top all welded integral. Simple and positive lock compressor. Strong, quiet slide with 8 rollers on each drawer which operates easily whether empty or full. Green enamel.

All files 24½" deep.
Height—4 drawer, 52"; 3 drawer, 40"; 2 drawer, 30½".

No.		Without Lock	With Lock
601.	4 Drawer Letter	58.45	73.00
603.	4 Drawer Legal	67.20	81.50
631.	3 Drawer Letter	55.70	70.50
633.	3 Drawer Legal	65.20	80.00
621.	2 Drawer Letter	54.70	69.50
623.	2 Drawer Legal	63.20	78.00

Many of the file cabinets on this page can be obtained with combinations of letter size, legal size, 3x5 card, 4x6 card, 5x8 card and document file drawers. Please furnish us with your requirements and we will immediately furnish quotations.

GRADE C



Engineered and precision-made to secure filing efficiency. Designed to conserve and accord full filing space and capacity. Fabricated of heavy best-grade furniture steel — electrically welded throughout and oxy-acetylene welded with reinforcements to secure durability and strength for long years of service. Full-depth wide workable drawers — equipped with a modern heavy-duty progressive suspension which permits drawers to glide easily under a full load on perfectly timed extension slides containing 2 ball bearing rollers and 2 case hardened rollers (one floating).

Yale paracentric lock with simplified "surproof" locking mechanism comes as standard equipment with such lock units, when ordered.

Finished in grey lustre-lite for the modern office or green to match present installations. Indicate finish when ordering.

Width outside, letter size, 14¾", legal size, 17¾". All files, 26½" deep. Height, 5 drawer, 58½", 4 drawer, 52", 3 drawer, 40", 2 drawer 30½".

No.		Without Lock	With Lock
2605.	5 Drawer Letter	73.50	86.00
2604.	4 Drawer Letter	52.50	63.50
2604.	4 Drawer Legal	62.50	73.50
2603.	3 Drawer Letter	48.50	58.50
2603.	3 Drawer Legal	56.00	66.00
2602.	2 Drawer Letter	43.50	52.50
2602.	2 Drawer Legal	48.50	57.50

Prices on above include delivery to nearest freight station

COUNTER HEIGHT CABINETS

No. 3233	No. 3236	No. 3237 No. 3238	No. 3243	No. 3242	No. 3239	No. 3240	No. 3241
Three Drawer Letter File	Three Drawer Legal File	Correspondence File	Four Drawer Bill File	Six Drawer Check File	Seven Drawer For 5x3 Cards	Six Drawer For 6x4 Cards	Five Drawer For 8x5 Cards

This group of steel filing cabinets includes a wide variety of units adaptable to counter installation or individual use. In addition to the types and styles illustrated above, special arrangements are available to meet any specific requirement. Where floor space is a factor and where the office counter is desirable, the adaptation of the counter to filing and storage accommodation provides the two-fold answer to the office problem.

These cabinets all have a 28¼″ cabinet depth and stand 42″ high. They are also available with a linoleum top, and are 43⅜″ high. The files are of the ball bearing roller cradle type with progressive suspension slides.

Linoleum tops, panelled backs, mouldings and swinging gates add greatly to the attractive appearance of the counter assembly and substantially increase its features of service. These added features are available if so desired. The linoleum tops are secured with chrome beaded binding with seamless corners at the top. A stainless steel kickplate at the floor, accentuates the appearance of the counter installations, if desired. The panel-type swing gate with double or single action self-centering hinges measures 30″ x 32″ wide or may be made to your specification.

Storage, knee space and roller shelf units are available for counter adaptation. They complete the serviceability of the counter for general or departmental office use. The double swinging doors of the storage cabinet are secured by three-point latch and lock. They contain two adjustable shelves. The knee space unit with a box drawer and coin and bill tray insert and drawer, are available with or without a lock. Six adjustable roller shelves are in the roller shelf cabinet. More or less shelves are available as required.

Linoleum Counter Top with chrome binding

WRITE US CONCERNING YOUR SPECIAL NEEDS OR CONSULT OUR REPRESENTATIVE. PRICES FOR LINOLEUM COUNTER TOPS, PANELLING, STEEL KICKPLATE AND CHROME BINDING WILL BE FURNISHED UPON REQUEST.

Steel Kickplate

Without General Lock	With General Lock	DESCRIPTION	Cabinet Outside			Without Lock	With Lock
			Width	Height	Depth		
3233	3233-L	Three Drawer Letter File	15″	42″	28¼″	73.25	81.75
3236	3236-L	Three Drawer Legal File	18″	42″	28¼″	80.50	91.00
3237	3237-L	Two Letter Size Drawers and Two Double Compartment Drawers For 5 x 3 Cards	15″	42″	28¼″	94.50	106.25
3238	3238-L	Two Letter Size Drawers and Two Double Compartment Drawers For 6 x 4 Cards	15″	42″	28¼″	94.50	106.25
3239	3239-L	Seven Double Compartment Drawers For 5 x 3 Cards	13¼″	42″	28¼″	153.50	169.00
3240	3240-L	Six Double Compartment Drawers For 6 x 4 Cards	15¼″	42″	28¼″	139.00	153.75
3253	3253-L	Six Double Compartment Drawers For 5 x 3 Cards	13¼″	42″	28¼″	139.00	153.75
3241	3241-L	Five Double Compartment Drawers for 8 x 5 Cards	19″	42″	28¼″	130.50	144.50
3242	3242-L	Six Single Compartment Drawers For Checks	13″	42″	28¼″	134.25	148.75
3243	3243-L	Four Drawer Bill File	13″	42″	28¼″	102.50	114.50
3256	3256-L	Three Triple Compartment Drawers For Documents	18″	42″	28¼″	97.25	108.25
3244		Double Door Storage Cabinet	24″	42″	28¼″	71.25	
3246		Double Door Storage Cabinet	36″	42″	28¼″	87.00	
3249		Knee Space Unit	24″	42″	28¼″	57.50	
3257		Knee Space Unit	36″	42″	28¼″	74.50	
3248		Roller Shelf Cabinet	18″	42″	28¼″	99.25	

CARD FILING CABINETS

ONE DRAWER UNITS

Capacity 1500 Cards—16″ Deep

C533. 3 x 5 ..... 3.60
C634. 4 x 6 ..... 4.20
C835. 5 x 8 ..... 5.40
C936. 6 x 9 ..... 8.40

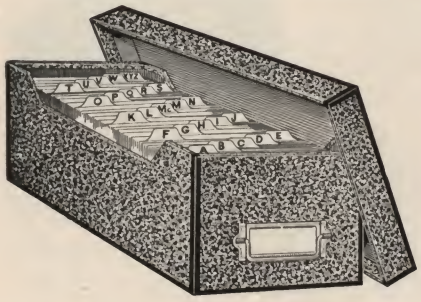
Locks. Cabinets equipped with lock and key add $1.75 per drawer to above prices.

STEEL CABINET BASES

Sturdily constructed of heavy gauge steel, made for 3x5, 4x6, 5x8 and 6x9 cabinets. 15″ high.

No. 23 for two drawer 3x5 cabinets 10.00
No. 24 for two drawer 4x6 cabinets 10.00
No. 25 for two drawer 5x8 cabinets 10.00
No. 26 for two drawer 6x9 cabinets 10.00

FIBRE BOARD FILE BOXES



Although basically constructed for temporary filing, these fibre board card index files are built sturdily enough to be used for permanent filing. These low-cost files are made of tough binders board, covered with black and white marble paper, and are equipped with steel follow blocks to keep the contents in vertical position. They are available in all standard card sizes.

No. 35. (3″x5″ cards) 1.84
No. 46. (4″x6″ cards) 2.01
No. 58. (5″x8″ cards) 2.42
No. 69. (6″x9″ cards) 2.76
No. 49. (4″x9″ cards) 2.76

These cabinets are designed for card record systems and for use on desks or tables. Constructed of extra heavy furniture steel. Rubber feet are provided but can easily be removed when the units are stacked.

Drawers are equipped with bail suspension, to prevent accidental withdrawal from cabinet. Also, newly improved positive lock compressor to keep cards in place, solid brass card holder and pull. Finish — rich olive green or grey baked enamel.

CABINETS WITH BASES

SIX DRAWER UNITS

Capacity 9000 Cards

	Card Size	Height	Length	Price
No. 5633	3x5	30″	16″	28.90
No. 6634	4x6	33″	16″	31.60
No. 8635	5x8	36″	16″	38.80
No. 9636	6x9	39″	16″	46.00

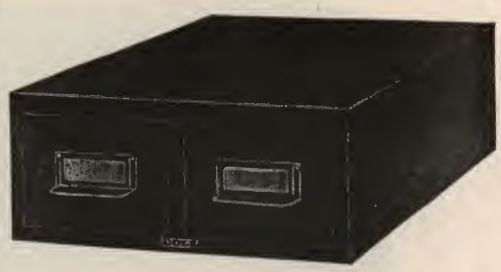
EIGHT DRAWER UNITS

	Card Size	Height	Length	Price
No. 5833	3x5	35″	16″	35.20
No. 6834	4x6	39″	16″	38.80
No. 8835	5x8	43″	16″	48.40
No. 9836	6x9	47″	16″	58.00

TEN DRAWER UNITS

	Card Size	Height	Length	Price
No. 51033	3x5	40″	16″	41.50
No. 61034	4x6	45″	16″	46.00
No. 81035	5x8	50″	16″	58.00
No. 91036	6x9	55″	16″	70.00

Cabinets equipped with locks can be furnished at $1.75 per drawer additional.

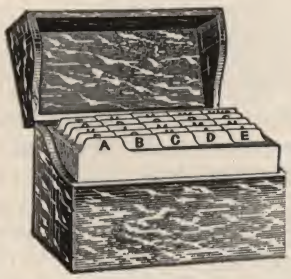


TWO DRAWER UNITS

Capacity 3000 Cards—16″ Deep

C2335. 3 x 5 ..... 6.30
C2346. 4 x 6 ..... 7.20
C2358. 5 x 8 ..... 9.60
C2369. 6 x 9 ..... 12.00

Locks. Cabinets equipped with lock and key add $1.75 per drawer to above prices.



MIDGET CARD INDEX

Complete with alphabetical indexes. Quartered oak box.

No. 533. For 3x5 cards 1.10
No. 644. For 4x6 cards 2.00
No. 855. For 5x8 cards 3.25

BOX LETTER FILES

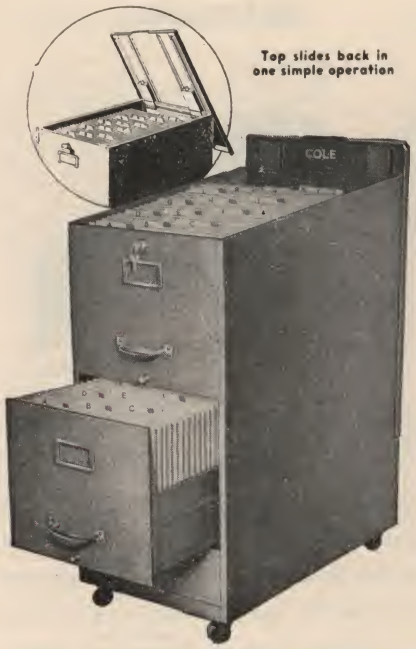
These paper covered box files have wood backs with tan paper printed with filing information. Each file has A to Z index included.

No. 310. Each . . . 1.60 Dozen . . . 18.00

Space does not permit showing the many types of filing equipment available.

Please send us your requirements. The material will be obtained for you.

PORTABLE DESK FILES



Here at last is the answer to the busy executive's and secretary's prayer.

A work organizer and a pull drawer letter file combined, which will keep private papers really private. Upper compartment with lift cover for current records and visible data.

Lower filing drawer for other records plus a utility drawer set into the base.

Made of heavy gauge furniture steel. Equipped with ball bearing rollers, four swivel casters and a spring compressor. Guide rod operates in a depressed groove for eyeleted guide operation. Equipped with lock and key for upper compartment.

TWO FINISHES

OLIVE GREEN CRINKLE
OR COLE GRAY

No. 548—Letter Size

	Wide	High	Deep
Upper Compartment	13"	10⅞"	24"
File Drawer	12¼"	10¾"	24¾"
Utility Drawer	12¼"	3⅝"	24¾"
Overall Height			30½"

$44.95

No. 588—Legal Size

	Wide	High	Deep
Upper Compartment	16"	10⅞"	24"
File Drawer	15¼"	10¾"	24¾"
Utility Drawer	15¼"	3⅝"	24¾"
Overall Height			30½"

$54.95

Prices do not include indexes.

A new low cost portable file designed for quick reference, and time saving. Made entirely of heavy gauge furniture steel, electrically welded throughout.

Can be used for standard vertical folders as well as hanging folders.

The free rolling, smooth casters give you quick action. Brings your records right next to your desk. Can be rolled smoothly and quietly to any other department.

Equipped with lock and key so that your confidential records will be secure and safe from prying eyes.

The reversible spring compressor enables you to use this portable file on either side of the desk. Guide rod operating in a depressed groove for eyeletted guide operation. Smooth rich olive green finish.

No.	Compartment Inside Width	Height	Depth	Price
2654	13½"	11⅜"	23¾"	24.00
2754	13½"	11⅜"	16"	22.00

The above prices do not include indexes.

SUSPENDED FOLDER FILE

When ordering the above for use with swinging folders, add the letter "R" to the above stock number.

No. 30—HANG-A-FILE

Complete with 25 Hang-A-File folders and inserts. Folders supported by full length chrome finish metal hangers which rest on two guide rails.

All metal file, caster equipped, finished in Green, Gray, Walnut Enamel. Width 13¼" x 26¼" x 18¼".

Complete, each 15.50

ECONOMY STORAGE FILE

275 lb. test corrugated board. Steel reinforced at corners and on shell. Interlocking construction for stacking.

Finish, olive green.

E210. Letter size 3.45
E510. Legal size 4.25

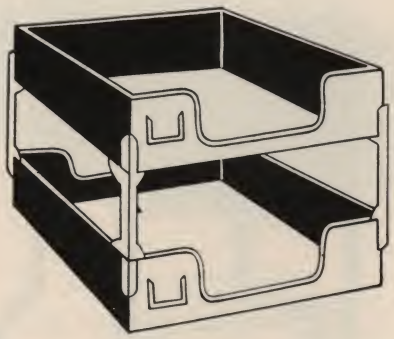
STEEL FRONT STORAGE FILE

So that "Prontos" will stand all abuse, they are built of 275-lb. test corrugated board and reinforced with steel not only on the shell but at the four corners of the drawers as well and have a steel face on drawers.

1210L. Letter size 4.35
1510L. Legal size 5.50
1941L. Check size 2.90

SAFETY BOXES—LETTER TRAYS

DESK TRAYS



These modernly designed low-priced letter trays afford complete accessibility to contents from all sides with finger-holes to expedite the quick removability of papers. Fabricated of furniture steel; electrically welded throughout. Each tray has embossed card holder to provide easy indexing. Nickel-plated stacking posts in sets of four are available as indicated below. Finished in light gray enamel.

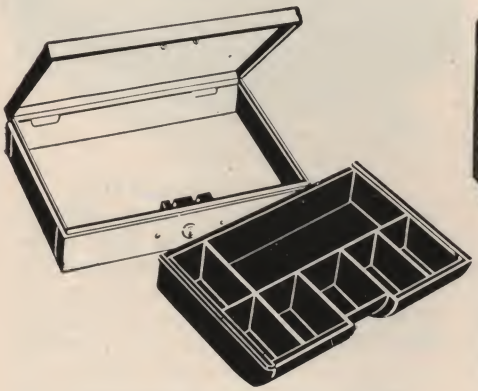
No. F129. Letter-size—per tray 1.75
No. F140. Legal-size —per tray 1.85
Stacking posts per set of four..... 1.00

WOOD DESK TRAYS

These desk trays are available in Oak, Mahogany or Walnut finish. Three ply veneer bottoms grooved into sides. Tray bottoms covered with non-marring material. Trays can be stacked by ordering stacking posts.

	Oak	Mah.-Wal.
No. 122. Letter size	3.85	4.40
No. 124. Legal size	4.40	4.95
No. 126. Stacking Posts. Per set of 4		.66

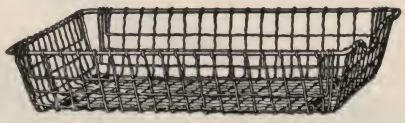
CASH BOXES



These sturdy cash boxes are made of heavy gauge steel finished with gray enamel. Each box furnished phenolic plastic coin and bill tray to facilitate easier and speedier handling of coin currency.

No. F10. 10¼"x2¼"x7¼" 3.30
No. F30. 10¼"x4⅜"x7¼" 4.20

WIRE LETTER TRAYS



These wire trays have protected feet and are 10x14x3" in size. Where more than one tray is listed, each set is fastened securely together, one above the other.

No. 148. One tray. Each ..... .55
No. 482. Two trays high. Each 1.50
No. 483. Three trays high. Each... 2.50

DESK DRAWER STATIONERY TRAYS

This Drawer Tray can be inserted in your desk drawer to keep letterheads, paper, envelopes, etc., neatly arranged. Made of grey steel or natural finish wood.

No. 130. WG Steel 8⅛" x 3⅞" x 21" 6.05
No. 130. Wood 9¼" x 3 11/16" x 21"... 6.60

PENCIL-CLIP TRAY

The many compartments of these steel trays keep clips, bands, pencils, pins, etc., in neat arrangement along one side of the desk drawer.

No. 131. 1½" x 8" x 20".....3.15
No. 132. 1½" x 4" x 18⅛" expanding to 35" 3.10

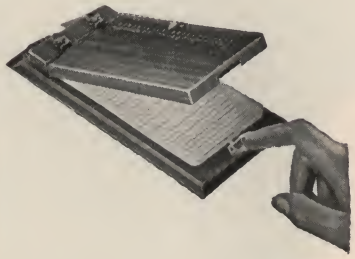
SECURITY BOXES

You couldn't want a more secure protection for bonds, cash and other valuables! It's a regular bank vault—right in your own office. Made of the finest grade extra-heavy furniture steel, electrically welded throughout. Combination lock. Size 16"x 12" x 7¾". Grey crinkle finish.

Equipped with piano hinge and sturdy brass handle.

No. C5015 ..... 14.95

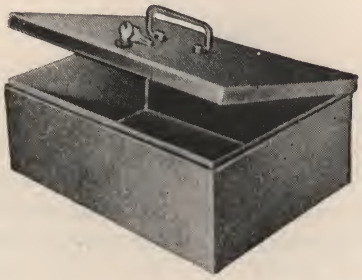
LIST FINDERS



Finger-tip control enables these unique list finders to spring open at a touch to any letter. 1380 spaces for listing phone numbers, names, addresses are available in this handy form. You can find any one of these lists instantly with just a touch of your finger. These list finders are a necessity in every office, school and home. Fillers are renewable and are easily removed for typing. Just slide the indicator to the letter you want, press the spring, and you have your list at your fingertip.

AW-10. Grained walnut 1.95
AS-10. Silver grey 1.95
AI-10. Ivory 1.95
AT-10. Homespun tan 1.95
Refills ..... .40

SAFETY BOXES



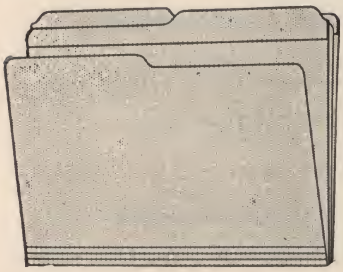
Well made of finest grade extra heavy steel. Finished in green crinkle or Cole grey, with sturdy piano hinge, and heavy brass-lacquered handle on cover. With lock and two keys.

No. C3130. 13½"x10⅛"x5½" 11.00
No. C018. 11¼"x 7⅜"x4⅜".... 6.20

All Orders will be Priced at Time of Delivery whether Higher or Lower than Catalog Prices

FILING SUPPLIES

VERTICAL FILE FOLDERS



Medium heavy weight, 9½ pt. thickness. Packed 100 folders per box.

Single Top have tabs of just thickness of folder. Duo Top have tabs double thickness of folder.

State cut desired when ordering.

Letter Size

STRAIGHT CUT

	Per 100	Per 1000
8007A. Single-Top ..	3.22	32.20
DM8007A. Duo-Top .	3.45	34.50

½ CUT

8009A. Single-Top ..	3.39	33.90
DM8009A. Duo-Top .	3.68	36.80

⅓ CUT

8039A. Single-Top ..	3.39	33.90
DM8039A. Duo-Top .	3.68	36.80

⅙ CUT

8059A. Single-Top ..	3.39	33.90
DM8059A. Duo-Top .	4.26	42.60

Legal Size

STRAIGHT CUT

	Per 100	Per 1000
8117. Single-Top ...	4.95	49.50
DM8117. Duo-Top ..	5.27	52.70

½ CUT

8119. Single-Top ...	5.06	50.60
DM8119. Duo-Top ..	5.45	54.50

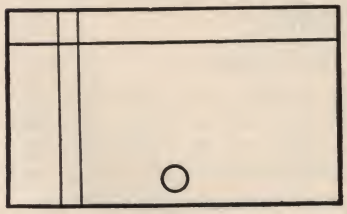
⅓ CUT

8139. Single-Top ...	5.06	50.60
DM8139. Duo-Top ..	5.45	54.50

⅙ CUT

8159. Single-Top ...	5.06	50.60
DM8159. Duo-Top ..	5.45	54.50

LIBRARY RECORD CARDS



Pen ruled—white only. Punched for round rod—standard grade.

No. 3506—3x5

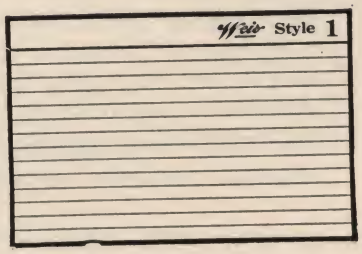
Per 100 .55 Per 1000 4.90

A-Z CARD INDEX

25 divisions, buff color, commercial grade.

3255. 3x5. Per set..... .39
4256. 4x6. Per set..... .61
5258. 5x8. Per set..... .66

HORIZONTAL RULED INDEX CARDS



Style 1

WHITE	Per 100	Per 1000
No. 351DG. 3x5.....	.28	1.98
No. 461DG. 4x6.....	.39	3.30
No. 581DG. 5x8.....	.61	5.23
COLORED		
No. 351DG. 3x5.....	.33	2.20
No. 461DG. 4x6.....	.46	3.63
No. 581DG. 5x8	.66	5.50

Ruled long way, one side. Colors: Blue, buff, salmon, cherry and green. Standard weight.

Style 0

Blank Index Cards

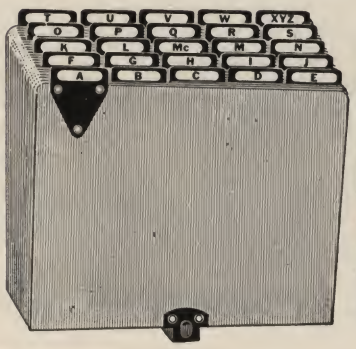
WHITE	Per 100	Per 1000
No. 350DG. 3x5.....	.28	1.98
No. 460DG. 4x6.....	.39	3.30
No. 580DG. 5x8.....	.61	5.23

FILE FOLDER LABELS

The quick, easy way to label file folders. Gummed labels feed directly from dispenser box to typewriter. Label is applied to front and back of folder tab. White. 250 labels per roll. 3¾" wide.

No. 5L4. Roll .45 Dozen 4.50

A-Z VERTICAL INDEXES



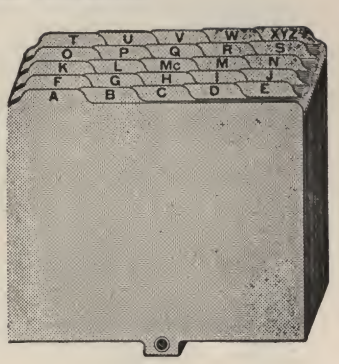
METAL TABS—25 DIVISIONS

With No. 2 Bottom Tab—Pear Green—25 point Pressboard.

No. 95M21. Letter Size. Set.... 5.34
No. 95M24. Legal Size. Set.... 6.00

WITHOUT BOTTOM TABS

No. 95MX21. Letter Size. Set... 4.51
No. 95MX24. Legal Size. Set... 5.34



Plain Tabs—25 Division with No. 1 Bottom Tab Pearl Green 20 point pressboard.

No. 95P21. Letter Size. Set..... 2.09
No. 95P24. Legal Size. Set..... 3.30

WITHOUT BOTTOM TABS

No. 95PX21. Letter Size. Set... 1.98
No. 95PX24. Legal Size. Set... 3.19

SUSPENSION TYPE FOLDERS

This new type of file folder is suspended on a frame set in the standard size filing cabinet drawer. Suspended files do not tip over and easy accessibility to any file is made possible. Files are made of red rope stock, hangers are made of aluminum furnished with one chrome tab per folder which may be adjusted to any one of five positions on the folder. Includes A-Z inserts.

Folders

No. 506. Letter size, 25 per box..... 4.25
No. 1506. Legal size, 25 per box..... 4.75

Frames

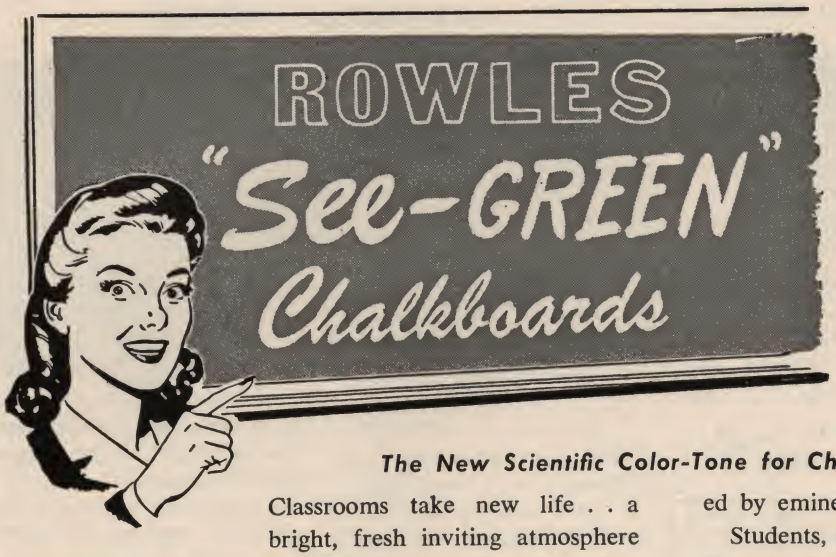
No. 39. Letter size, complete 1.90
No. 139. Legal size, complete 2.15

CHAIR CUSHIONS

RESPIRATOR CUSHIONS. Both comfortable and healthful, these cushions are constructed with air vents of sponge rubber, making them always cool. Under surface clings to chair surface, preventing slipping. Covered with velour or corduroy in brown, maroon, gray and green.

	$5.95 19"x17½"	$4.95 18"x16½"	$4.50 16"x14½"	$4.75 17"x15½"	$4.50 15"x13"
CORDUROY					
Brown	950	850	650	750	550
Gray	952	852	652	752	552
Green	954	854	654	754	554
Maroon	956	856	656	756	556
VELOUR					
Brown	970	870	670	770	570
Gray	972	872	672	772	572
Green	974	874	674	774	574
Maroon	976	876	676	776	576

CHALKBOARDS



MODERN, EYE-SAVING COMFORT TO YOUR CLASSROOMS

The New See-GREEN Brings You These Advantages

- Less eye-strain
- Pleasing, restful atmosphere
- Brighter, more cheerful classrooms
- Improved classroom efficiency
- Less contrast with lighter walls

The New Scientific Color-Tone for Chalkboards

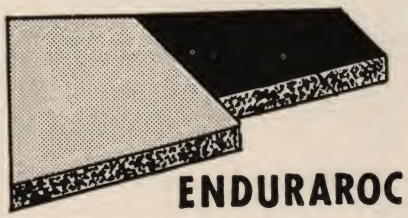
Classrooms take new life . . a bright, fresh inviting atmosphere that creates new interest throughout the entire school day, when you're working with See-GREEN, the new soft, pleasing light green color for chalkboards.

See-GREEN is a scientific color, selected and recommended by eminent school authorities throughout the country.

Students, and teachers, too . . . like See-GREEN! With its glare-free, non-fading and velvet smooth surface, See-GREEN is easy-to-look-at from any part of the room. See-GREEN is an intelligent investment that will pay big dividends throughout the years.

Now Available in your choice of three famous chalkboards — DUROPLATE, PERMASITE AND ENDURAROC

A chalkboard that will give you greater service

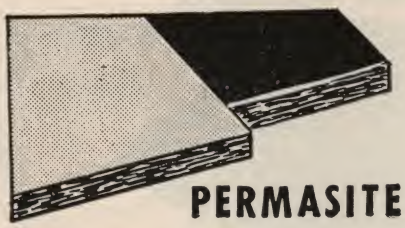


ENDURAROC CHALKBOARDS

A superior chalkboard of highest quality

Made to last a lifetime. Combination of indestructible asbestos and Portland cement. Tough and wear-resisting. Close grain surface makes perfect base for legible writing. Permits excellent visibility from any part of the room. Easy to clean. Thickness $\frac{3}{16}$-inch. Widths, 3½ and 4 ft. Lengths, 5, 6, 7 and 8 ft. Weight 2½ lbs. per square foot. Available in black or See-GREEN.

1 to 299 square feet	.95 per sq. ft.
300 square feet and over	.90 per sq. ft.



PERMASITE CHALKBOARDS

A Harder, Smoother, Stronger Chalkboard with Exceptional Writing Qualities

The perfect classroom chalkboard. Harder, smoother and stronger with exceptional writing and erasing qualities. The base of Permasite is a strong, yet flexible hardboard made of long, strong hardwood fibers welded under terrific pressure into almost "iron-like" sheets with surfaces as smooth as glass. ¼" thick. Widths of 3½ and 4 ft. Lengths of 5 to 12 ft. Wt. 1¼ lbs. per sq: ft. Available in black or See-GREEN.

1 to 299 square feet	.53 per sq. ft.
300 square feet and over	.48 per sq. ft.

DUROPLATE CHALKBOARDS

A Perfect Writing Surface In All Climates

DUROPLATE is made of layer upon layer of long, tough, wiry wood fibre, impregnated and welded together under terrific pressure with moisture resisting material. Each panel is thoroughly kiln-dried before surfacing. Has splendid writing surface which is non-light reflecting. Easily read without eyestrain. Erases and cleans with no effort. A perfect board for every type of installation.

Thickness ¼-inch. Available in 3, 3½ and 4 ft. widths. Any length up to and including 12 ft. Weight 1 lb. per square ft. Colors: black or See-GREEN.

1 to 299 square feet	.45 per sq. ft.
300 square feet and over	.40 per sq. ft.

EASY TO INSTALL — Complete Instructions Furnished with every Shipment

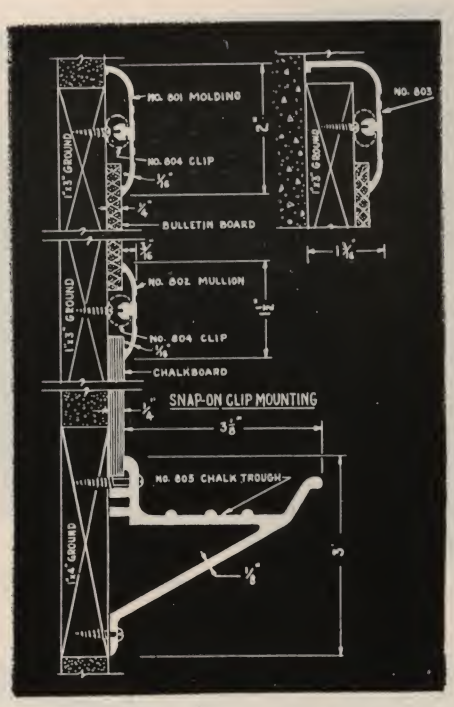
CHALKBOARD - CORKBOARD TRIM

MODERN ALUMINUM TRIM

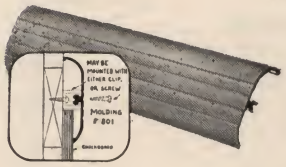
Here's a new smart-looking line of chalkboard moldings that will aid in carrying out the functional appearance throughout the entire classroom. These Aluminum Moldings are modern in design, yet simple enough to blend well with other styles of trim. The moldings are precision formed of extruded aluminum, noted for its extreme light weight and durability. It cannot warp, split, crack, splinter or rot. It is fire resistant.

All moldings are made for special snap-on hidden clip which permits entire molding to be installed without visible nail or screw heads. Or, if desired moldings may be installed with ordinary wood screws. Aluminum Moldings have a natural soft satin aluminum finish and are anodized to prevent finger print marks, discolorization or tarnishing, and to help retain the original luster for the life of the building.

Aluminum Moldings can be easily cut, mitered and fitted on the job with ordinary hacksaw and file. No corner pieces or other fittings are required.

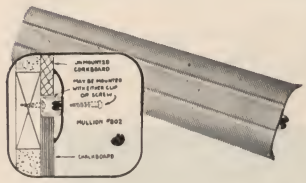


See page 76 for suggested use of aluminum trim with chalkboard and corkboard.



No. 801 MOLDING

Molding to be used around outside edge of ¼" chalkboard and unmounted Perma Kork when chalkboard is mounted on wood grounds flush with plastered wall. Available only in stock lengths of 9, 10, and 12 ft. 2 in. wide. All ends cut square. Per ft. . .40



No. 802 MULLION

Mullion molding used between chalkboard panels and unmounted corkboard, only 1½ inches wide. Available only in stock lengths of 9, 10 and 12 ft. All ends cut square. Per foot . . .35

No. 804 CLIP

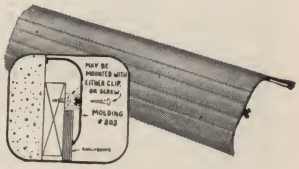
Used for invisible mounting of Rowles Aluminum Chalkboard Moldings. Clip is screwed to wall and moldings are snapped into place. Spring action holds molding securely. Standard size clips 1⅝ inches long, and are to be mounted on 16" centers. Each 05

No. 116 CHALK SCREEN AND TRAY

An efficient way to collect loose chalk dust. Louvred screen allows chalk dust to fall into tray, thus preventing erasers from picking it up and smearing it back on the board. Tray easily removed for cleaning. Made of steel. 2⅜ inches wide, ½ inch deep. Lengths of 3, 4 or 5 ft. Per foot 50

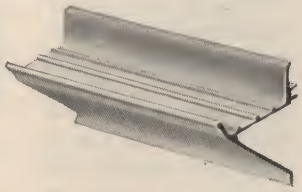
No. 803 MOLDING

Molding to be used around outside edge of chalkboard and unmounted Perma Kork when chalkboard is mounted on wood grounds attached directly to block unfinished wall. 2 inches wide. Available only in stock lengths of 9, 10 and 12 ft. All ends cut square. Per foot . . .45



No. 805 CHALK TROUGH

Single piece chalk trough of extruded aluminum. This is not a snap-on type, but is to be mounted with wood screws for extra strength. All sharp corners have been eliminated to aid easy removal of dust. Easily installed. Trough is 3½ inches wide and available only in stock lengths of 9, 10, 12 ft. Ends cut square. Per foot 1.50

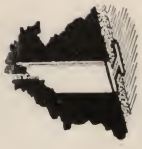


No. 805R. Chalk Trough Casting for right end.
No. 805L. Chalk Trough Casting for left end.
Per pair 1.50

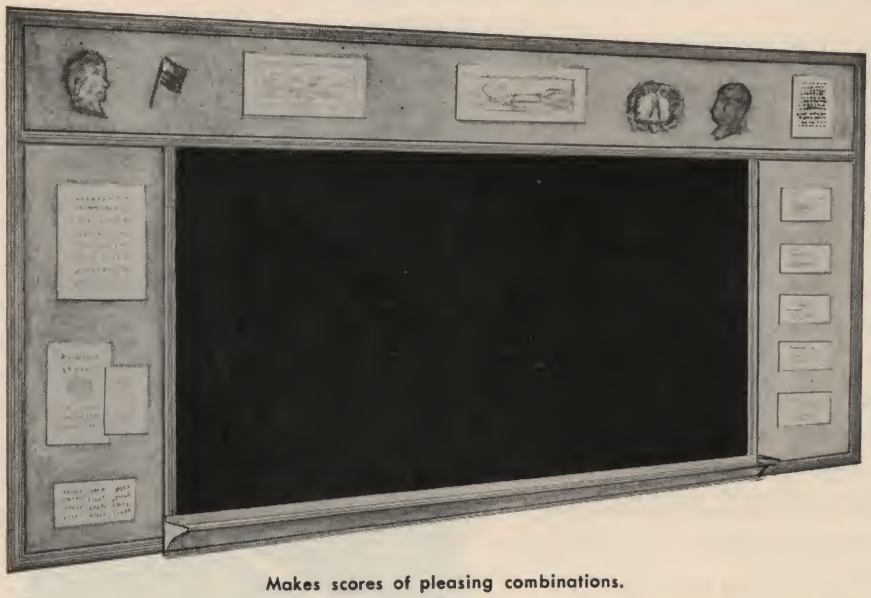
No. 8 METAL JOINTS

An ideal method for joining panels of chalkboard. Made of steel, finished to match the color of the chalkboard. Metal joints fit snugly over the ends of the chalkboard panels to hold the board tightly against the wall. Available in lengths of 3, 3½ and 4 ft.

Per length as shown 75



BULLETIN BOARDS FOR PERMANENT INSTALLATIONS



Makes scores of pleasing combinations.

Light See-Green Color Harmonizes with See-GREEN Chalkboards

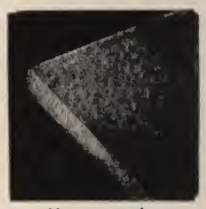
GREEN LINEN FINISH

PERMA KORK

- Pin and tack marks do not show
- Washable surface
- Cork stays soft and pliable
- Square cut sheets
- Extra large sizes
- Easily mounted
- Mounted or un-mounted

Now you can bring the same cool, restful color effect to your bulletin boards as you have in See-GREEN Chalkboards. Rowles new light green Perma Kork is made entirely of ground corkwood. Perma Kork stays soft and pliable. It does not show punctures made by pins or tacks. The surface is washable. Sheets are square cut and can be mounted with invisible joints on any smooth surface.

Perma Kork board is available either mounted or unmounted in the new green color or the light natural tan. Mounted Perma Kork has ¼" spruce backing.



Unmounted Perma Kork

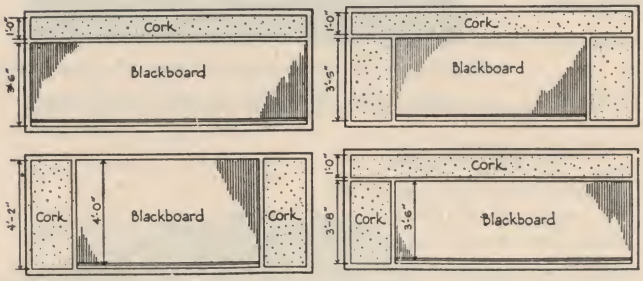
Mounted Perma Kork

GREEN CORKBOARD

		PRICES PER SQ. FOOT 1-199	200 & over
No. 24.	Unmounted max. size 5'x20'; ¼" thick. Linen finish	.85	.80
No. 22.	Mounted max. size 4'x12'; ½" thick. Linen finish	1.15	1.10

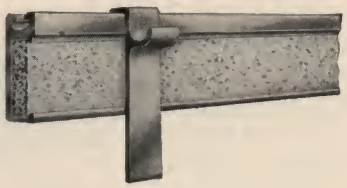
TAN CORKBOARD

No. 24.	Unmounted max. size 5'x20'; ¼" thick. Linen finish	.75	.70
No. 22.	Mounted max. size 4'x12'; ½" thick. Linen finish	1.05	1.00
No. 114.	Unmounted max. size 4'x12'; ¼" thick. Pebble finish	.60	.55
No. 112.	Mounted max. size 4'x12'; ½" thick. Pebble finish	.90	.85



MAP AND DISPLAY RAIL

Ideal for displaying bulletins, charts, maps, and exhibits of all kinds. Keeps woodwork, walls and chalkboards from becoming marred by pins, tacks, paste, etc. Movable spring clips and hooks hold a sheet, map case, or other object of any size. Can be attached to wood or steel molding, or directly on the plastered wall. Available in single rail for cork and hooks; or a double rail — one for the hooks, the other a continuous cork strip. Made in 9, 10, 12 ft. lengths.



No. 806-C.	1 to 99 ft.	.45
	100 and over	.40
No. 807.	Hooks ..... ea.	.15

BRIGHT EXTRUDED ALUMINUM

	PRICES PER LINEAL FOOT 1-99'	100-499'	500' & over
No. 806-C. Single Rail with cork insert	.45	.40	.35
No. 806. Single Rail without cork insert	.35	.30	.25
No. 807. Map Rail Hooks ..... Each	.15		Dozen 1.50

DURATEX CORK BULLETIN BOARD UNFRAMED

Duratex provides a perfect tacking surface. Holes close when pins or tacks are removed. Fibrous backing is soft and pliable. Cork ⅛ inch thick is securely bonded to ⅜ inch Fibreboard.

GREEN CORKBOARD

		PRICES PER SQ. FOOT 1-199	200 & over
No. 118.	Mounted, max. size 4'x12'; ½" thick. Linen finish	85	.80

TAN CORKBOARD

No. 118-S.	Mounted, max. size 4'x12'; ½" thick. Pebble finish	.60	.55
No. 118.	Mounted, max. size 4'x12'; ½" thick. Linen finish	.75	.70

Use unmounted corkboard only with aluminum moulding.

BULLETIN BOARDS

BULLETIN BOARDS AND CHANGEABLE LETTER BOARDS

There are many types of ready made bulletin boards and changeable letter boards available. All of the bulletin boards shown on this page have high quality cork mounted on sturdy backing. The changeable letter boards have a black, grooved panel background into which the molded plastic letters are inserted.

The frames of the boards are of hardwood fastened securely to the background and finished in natural finish.

Door frames of the closed boards are of hardwood with double strength glass panel. Doors are furnished with lock and key.

All boards are attractively finished and styled to make them suitable for any location.

OPEN FACE BULLETIN BOARD

Complete with Hangers

No.	*Overall Size*	*Weight*	*Price*
2538	15x21 in.	6 lbs.	4.75
2538A	18x24 in.	9 lbs.	5.95
2538B	24x36 in.	15 lbs.	8.55
2538C	36x48 in.	31 lbs.	14.00
2538D	36x60 in.	40 lbs.	16.50
2538E	42x60 in.	70 lbs.	21.00
2538F	42x96 in.	95 lbs.	31.90
2538G	48x72 in.	85 lbs.	27.35
2538H	48x96 in.	105 lbs.	36.50

OPEN FACE CHANGEABLE LETTER BOARDS

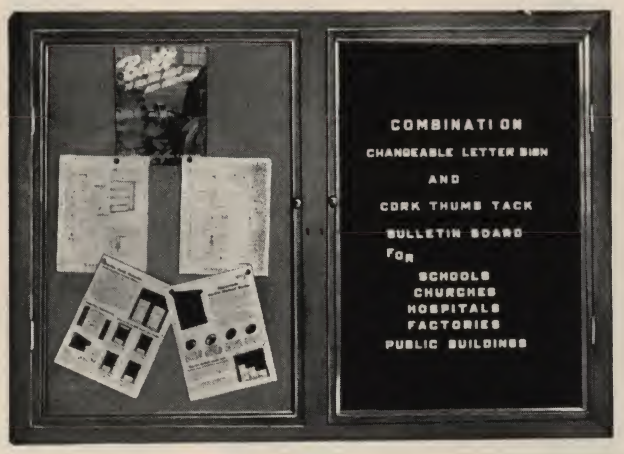
Complete with Hangers
Without Letters

	GROOVED SHORT WAY		GROOVED LONG WAY	
Size	No.	Price	No.	Price
10 x 15	702	6.00	702A	6.00
15 x 20	702B	8.00	702C	8.00
20 x 30	702D	15.00	702E	15.00
18 x 24	702F	10.75	702G	10.75
28 x 40	702H	26.75	702J	26.75

MOLDED PLASTIC LETTERS

Invincible moulded letters are unexcelled for attractiveness and legibility, and may be used with all changeable letter boards shown on this page. They are strong and durable and are held in perfect alignment flat against background with flanges top and bottom. Available in White or Red in the following five sizes. Order quantities of each letter desired.

		White per 100	Red per 100
No. 2556	¼"	5.00	8.00
No. 2556A	½"	5.00	8.00
No. 2556B	¾"	5.00	8.00
No. 2556C	1"	5.00	8.00
No. 2556D	1½"	7.00	10.00



GLASS ENCLOSED BOARDS

May be mounted on face of wall or recessed.

GLASS ENCLOSED BULLETIN BOARDS

Single Door Type—Size 28" wide x 40" high.
No. 2532 ..... 36.00

Double Door Type—Size 56" wide x 40" high.
No. 2534 ..... 64.00

GLASS ENCLOSED CHANGEABLE LETTER BOARDS

Single Door Type—Size 28" x 40". Grooved short way.
No. 700B 56.00

GLASS ENCLOSED COMBINATION BULLETIN AND CHANGEABLE LETTER BOARDS

Double door type—Size 56" wide x 40" high. Shown above.
No. 704 ..... 84.00

FLOOR STAND BULLETIN BOARD

Has posting surface on both sides. Cork tacking surfaces are mounted on strong, rigid panel. Frame and stand are substantially built of selected hardwood and beautifully finished in natural. Posting surfaces are 35 in. high and 47 in. wide. Overall height is 76 in. Overall width 50 in. Weight 140 lbs.

No. 2540. Floor Stand Bulletin Board 43.50

FLOOR STAND CHALKBOARDS

for School, Lecture Room, Office, Church, Industry and Home

STYLE D REVERSIBLE CHALKBOARD

The most practical portable chalkboard obtainable. Especially recommended for lecture rooms, auditoriums and Sunday schools. Easily moved and may be quickly disassembled and stored for future use. Made of genuine black or green Duroplate surfaces on both sides. Chalkboard can be reversed instantly and may be held at any angle. Tension fixtures are metal and cannot be broken by continuous use. Frames and standards are selected hardwood, finished medium walnut brown or natural, and equipped with grooved chalk rail. Frames are two inches wide, made of one-inch stock, corners carefully mitred and locked with steel wedges. Feet are equipped with glides. Packed one in a crate, shipped knocked down and may be easily assembled. Sizes given are overall size of chalkboards and frames. Black or See-Green.

	Size	Price
No. 21D	3 x 4 ft.	39.50
No. 22D	3 x 4½ ft.	42.75
No. 23D	3½ x 5 ft.	45.50
No. 24D	4 x 6 ft.	52.00

STYLE K EASEL CHALKBOARD

Admirably adapted for lecture rooms, Sunday schools, industrial use, sales offices and for posting bulletins. Genuine Duroplate surfaced one side, substantial frame and permanent rigid easel. Finished medium walnut brown. Folds compactly and may be stored in small space. Black or See-Green.

	Size	Price
No. 71K	18 x 24 in.	10.80
No. 72K	21 x 30 in.	12.00
No. 73K	24 x 36 in.	14.50
No. 74K	36 x 48 in.	17.25

A Style to Fit Every Need

Chalkboard surface on one or two sides. It may also be had with bulletin board surface on opposite side, thus doubling its usefulness. Writing surface is genuine Duroplate. Frame and end standards are strongly built and fitted with wide chalk trough; wood parts finished in medium walnut brown or natural. Standards are bolted to frame with hanger bolts and can easily be removed for storage. Feet are fitted with mar proof gliders. Sizes listed are overall sizes of chalkboard and frame. Black or See-Green.

	Size	Price		Size	Price
No. 31H.	3 x 4 ft.	35.00	**No. 33H.**	3½ x 5 ft.	39.95
No. 32H.	3 x 5 ft.	37.95	**No. 34H.**	4 x 6 ft.	48.05

STYLE H CHALKBOARD (Surfaced Two Sides)

No. 231H.	3 x 4 ft.	38.00	**No. 233H.**	3½ x 5 ft.	43.70
No. 232H.	3 x 5 ft.	41.65	**No. 234H.**	4 x 6 ft.	54.05

STYLE HB CHALKBOARD AND BULLETIN BOARD

Genuine Duroplate Chalkboard on one side and cork surface bulletin board on the other side. Tan or Green Corkboard.

No. 131HB.	3 x 4 ft.	42.50	**No. 133HB.**	3½ x 5 ft.	51.50
No. 132HB.	3 x 5 ft.	47.50	**No. 134HB.**	4 x 6 ft.	60.00

Similar to Style D, but instead of the board turning over it revolves on a vertical pivot which keeps both sides in a vertical position. It has a wide variety of uses in convention halls, industries, hotels, private and public schools, etc. Standard and frame are substantially constructed, medium walnut brown, or natural finish; legs are fitted with steel glides. Chalkboard is genuine Duroplate surfaced on two sides. Available in both black and green Duroplate writing surface. Sizes listed are overall sizes of chalkboard and frames. Black or See-Green.

	Size	Price
No. 21F	3 x 4 ft.	44.30
No. 22F	3 x 4½ ft.	46.50
No. 23F	3½ x 5 ft.	48.50
No. 24F	4 x 6 ft.	55.25

PORTABLE CHALKBOARDS

LARGE SIZE WALL BOARDS

Rowles Style G Chalkboards are framed and all ready to hang on the wall. They are an easy way to solve the chalkboard problem in rural schools, Sunday schools, lecture rooms, sales offices, factories, and in the home. The board is genuine black or green Duroplate, made to the same rigid specifications as unframed Duroplate. Style G boards are substantially framed with a 2-inch oak moulding and chalk trough. Mouldings are reinforced to prevent sagging. Finished walnut brown, or natural. Made in the standard sizes as listed but are available in special sizes on order. Sizes are overall length of board including frame. For overall width add 2½ inches. Style G chalkboards may also be had mounted on floor stands or easels. Specify Black or Sea-Green board.

A SIZE TO FIT EVERY NEED

	Size	Price		Size	Price
No. 01G.	3 x 5 ft.	17.25	No. 4G.	3½ x 8 ft.	25.95
No. 02G.	3 x 6 ft.	20.35	No. 5G.	3½ x 10 ft.	31.75
No. 04G.	3 x 8 ft.	24.40	No. 6G.	3½ x 12 ft.	36.80
No. 05G.	3 x 10 ft.	29.70	No. 11G.	4 x 5 ft.	21.00
No. 06G.	3 x 12 ft.	34.60	No. 12G.	4 x 6 ft.	23.75
No. 1G.	3½ x 5 ft.	18.85	No. 14G.	4 x 8 ft.	29.50
No. 2G.	3½ x 6 ft.	21.60	No. 15G.	4 x 10 ft.	34.95
			No. 16G.	4 x 12 ft.	40.80

STYLE L—Unframed

Here's a popular board that offers an exceptional value. Made of genuine Permasite Chalkboard which provides a smooth surface for easy, legible writing. Erases easily. Excellent for playrooms, stores and offices. Wood chalk tray finished natural, equipped with large eyelets for hanging. Complete with crayon and eraser. Black or Sea-Green.

No.	Size	Weight	Price
151L	15 x 21 in.	2½ lbs.	1.90
152L	18 x 24 in.	3½ lbs.	2.95
153L	21 x 30 in.	4 lbs.	3.45
154L	24 x 36 in.	4½ lbs.	4.50

Invincible DISPLAY EASEL

No. 76 EASEL is a substantially built stand for supporting large or small bulletin boards, chalkboards, and displaying bulletins, signs and exhibits of all kinds. Strongly constructed of hardwood finished medium walnut brown. Folds compactly, has adjustable pins upon which exhibits rest. These may be raised or lowered from 12 to 40 inches above floor line. Overall height 70 inches. Occupies floor space 30x36 inches. Ship. wt. 18 lbs.
Price each 9.55

STYLE T—Metal Framed

Style T Chalkboards are made of genuine Duroplate framed in a bright metal frame. These boards are well adaptable for home, office or factory. Equipped with neat wood chalk trough; large metal eyelets for hanging. Perfect writing surface. Easily erased. Complete with crayon and eraser. Individually packed. Black or Sea-Green.

No.	Size Overall	Weight	Price
50T	12 x 18 in.	2 lbs.	2.70
51T	15 x 21 in.	3 lbs.	2.90
52T	18 x 24 in.	4 lbs.	3.25
53T	21 x 30 in.	4½ lbs.	4.35
54T	24 x 36 in.	5 lbs.	4.90
56T	36 x 48 in.	12 lbs.	8.10

STYLE B—Reversible

Especially adapted to industrial as well as school use. May be hung on wall, used on an easel, or suspended from the ceiling so that data and information placed thereon may be seen from both sides. Writing surface is genuine Duroplate surfaced on two sides. Substantial wood frame. Attractively finished in medium walnut brown. Black or Sea-Green.

	Size	Price
No. 11B	2 x 3 ft.	9.80
No. 12B	3 x 4 ft.	16.00
No. 13B	3 x 4½ ft.	19.75
No. 14B	3½ x 5 ft.	22.75
No. 15B	4 x 6 ft.	29.00

STYLE TW—Wood Framed

An exceptionally fine wood framed chalkboard for educational, home and other uses. The fact that it is made of genuine Duroplate is assurance of high quality and therefore should not be confused with the cheap painted type frequently offered. Style TW frame is wood finished, natural, equipped with chalk trough. Each board individually packed, furnished complete with hooks and eyelets for hanging. Black or Sea-Green.

	Size	Price
No. 51TW	15 x 21 in.	3.05
No. 52TW	18 x 24 in.	3.70
No. 53TW	21 x 30 in.	4.70
No. 54TW	24 x 36 in.	5.20
No. 56TW	36 x 48 in.	9.00

CHALKBOARD CRAYONS

SCHOOL SERVICE CHALKBOARD CRAYONS

WHITE ● SIGHT PROTECTIVE ● COLORED

- **95% Pure Chalk**
- **No Grit**
- **Dustless**
- **High Tensile Strength**
- **Will Not Harm Board**
- **Smooth Writing**
- **Erase Easily**
- **Sight-Protective is Lead Free**
- **Economy Pack or One Gross Box**

SCHOOL SERVICE DUSTLESS CHALKBOARD CRAYONS are the finest extruded crayons available. To keep your chalkboards in the best condition a superior crayon must be chosen. SCHOOL SERVICE CRAYONS fill this requirement.

SCHOOL SERVICE WHITE crayons will give the maximum contrast on chalkboards that have become gray from use. For new chalkboards, either black or green, we recommend that the SCHOOL SERVICE SIGHT PROTECTIVE crayons, with a slight yellow tint, be selected so that the contrast with the chalkboard will not be too great.

SCHOOL SERVICE COLORED crayons are of the same quality as either the white or sight protective but have added to them in their manufacture a lead free, oil free, wax free, pigment to give pleasant colors. These chalkboard crayons erase easily and leave no marks on the chalkboard.

	Per Gross	Per Case (25 gr.)
SCHOOL SERVICE WHITE		
No. 1 (1 gr. pack)	.75	15.00
No. 14 (4-¼ gr. pack)	.92	18.50
SCHOOL SERVICE SIGHT PROTECTIVE		
No. 2 (1 gr. pack)	.85	17.00
No. 24 (4-¼ gr. pack)	1.02	20.40
SCHOOL SERVICE COLORED		
No. 34 (4-¼ gr. pack)	3.30	66.00

HYGIEIA DUSTLESS

Hygieia Dustless contains 95% pure levigated chalk, free from all harmful ingredients—grit, flint, or greasy binder. It actually preserves chalkboards by keeping the "tooth" of the board in perfect writing condition. It offers maximum responsiveness and visibility of mark, outstanding erasibility and unusual economy as to non-breakage and mileage of mark. Hygieia prevents eyestrain and is free from dust particles to irritate children's nasal and throat passages.

STANDARD PACKING: 144 sticks in fiber board box, 25 gross to case; weight per case, 100 lbs.

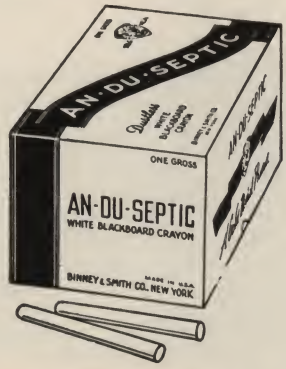
Per gross.... .85 Per case.... 17.50

HYGIEIA FORSYTE

Poor chalkboard illumination is a serious source of eyestrain among children and teachers. Sight-protective authorities tell us that the wave lengths of a certain golden tint focus more exactly and in a more orderly manner on the nerve layer of the eye which has no optical defect than white or any other color. This crayon contains the exact tint of yellow necessary to secure maximum legibility, while retaining the smoothness, strength, ease of erasing and cleanliness for which Hygieia is famous.

STANDARD PACKING: 144 round sticks, medium grade of hardness, in fiber board box.

25 gross to case ..... Per gross.... .90 Per case.... 19.00



AN-DU-SEPTIC DUSTLESS WHITE CHALKBOARD CRAYON

AN-DU-SEPTIC Dustless Crayon is made of pure chalk combined with other materials of the highest quality which assures clear white marks that can be seen at a distance. There are no hard particles present to injure the chalkboard.

AN-DU-SEPTIC White Dustless Crayon is put up in cardboard boxes, containing 144 sticks.

Per box ..... .81

Per case (25 gross) 18.00

CHALKBOARD ERASERS

DANN'S NOISELESS ERASER

A high quality eraser that cleans with surprising ease. Carefully selected long fibre wool felt, sewed with two-thread double-locked stitches guarantees long wear. No splitting, or excessive stiffness to injure the chalkboards.

		Doz.	Gross
No. 1.	5x2x1¼"	5.70	56.85
No. 1¾.	6x2x1¼"	6.60	65.60

SCHOOL SERVICE NOISELESS ERASER

An Outstanding Value

The School Service Chalkboard Eraser will give long wear and economy of service. It is a noiseless, all-wool felt eraser that features a stiff, non-breakable back which is guaranteed never to curl. Erasing strips are sewn to the back with two-thread, double-locked stitches which produce a brush-like, better erasing action.

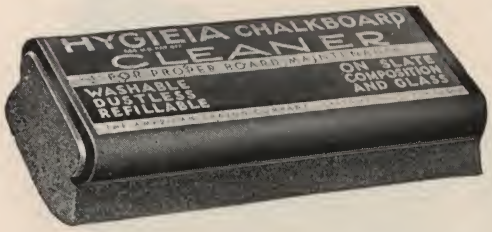
No. SS. 5" long, 2" wide, 1¼" deep. Price..... Doz. 4.50 Gross 45.00

IMPROVED DANN'S NOISELESS ERASER

Here's a chalkboard eraser that erases with amazing efficiency and is easy to clean. Made of the finest, firm, dense, wool felt that assures you longer wear. Back reinforced to eliminate curling even under the hardest use. Leatherette cover is waterproof and will not absorb chalk dust or germs from the hands. Sewed with two-thread. double-locked stitches. Natural cushioned grip formed by rounded edges extending beyond side eraser strips, 2¼" wide.

		Doz.	Gross
No. 01.	5x2¼x1⅜"	6.15	61.25
No. 01¾.	6x2x1⅜"	7.10	70.95

HYGIEIA CHALKBOARD CLEANER



Eliminates chalkboard washing. Reversible in the handle. One side Latex for erasing, the other side lamb skin for cleaning at end of day. Refills can be purchased separately.

Cat. No.		Each	Doz.	Gross
1100.	Complete Cleaner		6.50	71.50
1101.	Refills		4.25	46.75
1106.	12" Janitor size	2.20	24.20	

NEVERIP ERASER

The Neverip is the only eraser with back and outside felts in one continuous piece. Consider these five features:

1. Neverip is triple sewed.
2. Back and sides are one continuous piece, formed to make a natural cushioned grip.
3. Two thread, double-locked stitches prevent raveling if a thread is broken.
4. Curling and breaking are eliminated by Neverip's patented three-member back.
5. Neverip is 2¼" wide and 1⅜" deep, 25 per cent more felt in each eraser.

FIVE-INCH SIZE

Dozen..... 5.67 Gross..... 56.70

SIX-INCH SIZE

Dozen..... 6.50 Gross..... 65.10

DANN'S JANITOR'S CLEANER

Extra large improved Dann's Noiseless eraser for quick chalkboard cleaning after school. Saves time and does a better job. Made of high grade felt, same construction as the smaller Improved Dann's Noiseless erasers listed on another page.

No. 175. Janitor's Cleaner, 12" long, 2" wide, 1⅜" deep. Weight per dozen, 3¾ lbs.

Price each 1.20
Price per dozen..... 11.75

ANDREWS WOOD-BACK DUSTLESS ERASER

Popular since 1877. High quality erasing felts are securely cemented to specially shaped wood block.

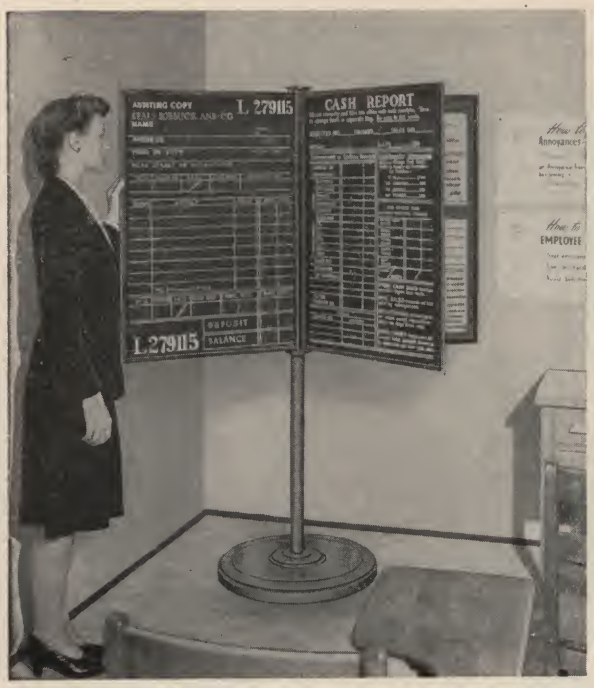
No. 40. 6 x 2"... Doz. 2.65 Gross 26.25

ECONOMY NOISELESS ERASER

The Economy noiseless eraser is one of the oldest glued or cemented erasers on the market. The erasing felts are firmly cemented to the wood back. This wood back is bound with a soft felt so that all edges are covered and no hard surfaces can come in contact with the chalkboard. This felt binding renders the Economy almost noiseless. The erasing felt used in all Economy erasers gathers in the chalk dust without smearing and can be easily cleaned.

		Doz.	Gross
No. 41.	Economy	4.10	40.80

SWINGING WING DISPLAY AND CHALKBOARDS



FLOOR TYPE

Main Frame. Comprises heavy round base casting. Central steel tubing upright supports pivot section which revolves in a complete circle. All metal parts finished in oven baked-on ebony enamel. Height to top of wings is 70½″.

Space Required. Maximum space required is twice the width of the wing used plus 2½″. Base casting measures 19″ or 22″ in diameter depending on size of wings used.

Posting Wings. Wing frames are steel rod construction with a steel channel on the inside. Electrically welded into one complete unit. Separators keep wings at equal distance apart. Oven baked-on ebony enamel finish.

WALL TYPE

Full-View Wall Pivot Multiplex may be placed anywhere. They require minimum space. Ideal for placing on wall, door jamb, partition upright, post, column or between shelves.

Posting area is multiplied twenty to forty times depending on size and number of swinging wing-panels used. You have a wide selection of sizes from which to choose.

Space Required. Minimum wall space required (when all the wings are opened to one side) is the width of the wing used, plus 1¾″ for the No. 26 and 6″ for the No. 27.

Fillers. Special thumb tack board filler permits easy thumb tacking, wire stapling or mounting of material. Finished in green or covered with a closely woven green fabric.

ELECTRIC ERASER CLEANERS

Royal Electric Chalkboard Eraser Cleaner with powerful suction and motor driven revolving brush which acts as an agitator, loosening the chalk dust deeply embedded in the eraser felt. Simple to operate, stationary or portable, built compact and sturdy—will last many years.

No. 193. Complete 28.95

ERAS-O-MATIC

An ideal all-purpose cleaner for schools, this combination cleaner is perfect for cleaning blackboards without spreading dust; gets dust and dirt from hard-to-reach places like shades, chalkboard moldings, etc. and is ideal for dustless cleaning of erasers. It will save time for your school or office maintenance men as well as do a thorough job of cleaning.

Sturdily built durable casting of highly polished aluminum, the cleaner is rust-proof and light-weight. An aero-dynamically correct fan develops strong suction for all attachments. Equipped with a ⅓ h.p. motor with sealed ball bearings, the cleaner motor operates on 110-120 volt A.C. or D.C. and has a 15 foot rubber cord. May be carried by means of handle or shoulder strap.

Electric Eraser cleaner 60.00
Combination cleaner with attachments 66.00

THE Endur SYSTEM

ALL THE PAINT PRODUCTS NECESSARY FOR INTERIOR DECORATION OF BRIGHTNESS-BALANCED CLASSROOMS

When used as indicated on the ENDUR SYSTEM COLOR CHART, ENDUR SYSTEM products furnish scientifically correct light reflectance values within the 3:1 helios ratio range.

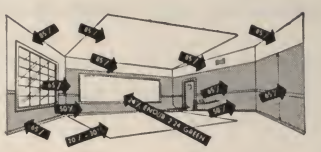
FOR WALLS, CEILINGS, WOODWORK, FLOORS and CHALKBOARDS

Write today for full information and ENDUR SYSTEM COLOR CHART giving available colors, recommended uses and reflectance values.

Endur "500" SERIES WALL, CEILING, WOODWORK and DADO PAINT

THE REFLECTANCE VALUE IS ON THE LABEL

Assures correct light reflectance values when used according to Endur System Color Chart. Emulsified rubber base paint retains proper reflectance despite repeated washings. Self-priming — self-leveling — odor-free — 20 minute drying — one coat coverage. 14 colors and white. Gallon covers 400-500 sq. ft. Material cost — about 1¢ per sq. ft.



Endur "300" SERIES NON-SLIP* FLOOR PAINT FOR WOOD or CONCRETE

Special rubber base resists wear, water, oils, greases, acids, alkalis, and chemicals in concrete. Ideal for shower and locker room floors, hallways, etc. *Contains minute abrasive particles of silicon carbide ("Carborundum") and aluminum oxide uniformly suspended throughout the paint. These help bond paint to floor — make long-wearing, virtually slip-proof surfaces.

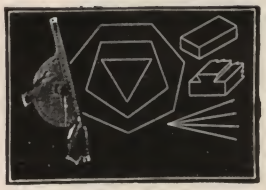
Endur "200" SERIES GREEN CHALKBOARD RESURFACER

For old, worn slate or composition chalkboards. Completely new surfaces in smooth, durable, scientifically approved green. Easily applied by brush or spray gun. Material cost, 3¢ per sq. ft. Standard 2-24 Green or Special 2-20 Green (for large classrooms or where natural light is excessive). Ask about ENDUR CHALKBOARDS for new school construction.

PRICES

200 Series	Gallon 9.30	Quart 2.50
300 Series	Gallon 8.40	Quart 2.30
500 Series	Gallon 4.95	Quart 1.44

GRAVITY PROTRACTORS



This new instrument is ideal for all chalkboard work involving angles. It combines practically all chalkboard instruments. Any desired angle can be drawn by setting the protractor so the ball-bearing pendulum points to angle required.

Gravity Protractor, 24". Wt. 1½ lbs. ea. 4.00

CHALKBOARD DYE

The color of new, clean slate is dark grey. Most new slate is dyed. For darker color wipe on Alatol dye. It's safe and easy to use.

1 pint can . . 3.20

ALL METAL CHALKBOARD COMPASS

This is an entirely new chalkboard compass, made of a lightweight, durable metal, nickel plated. It will outlast the old style wood compass, as there are no parts to break or get out of order. Packed in individual cartons. Weight 5 lbs.

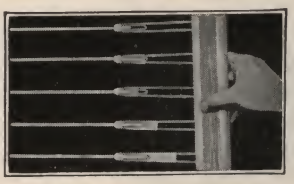
Each 3.00

CRAYON COMPASS

Hardwood, finished in natural color of wood. Has rubber foot and adjustable crayon holder. It is well made and strong. Length, 18". Screw adjustment at top holds compass at any desired spread. Weight per doz. 10 lbs.

No. 750. Each 1.50

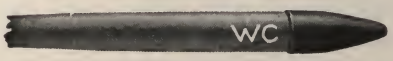
RAPID CHALKBOARD LINER



Lines can be drawn vertically, obliquely, horizontally, in circles, etc. Especially good for music and penmanship lines. The crayon fasteners permit instant adjustment. Crayons are easily inserted and removed. Weight 6 oz.

Each 50

CHALKBOARD POINTER



Made of hickory finished in natural color of the wood. It has a screw eye in the handle for hanging up. Noiseless tips are made of soft pliable rubber and will not injure chalkboards. 36" long. Weight 3 lbs. per dozen.

Each . . . . . .38 Dozen 3.80

VISUAL EDUCATION AIDS

Teaching Filmstrips, Slides and Discs are now available to the Schools. These Approved Teaching Aids were published in cooperation with POPULAR SCIENCE MAGAZINE, READERS DIGEST MAGAZINE, WORLD BOOK ENCYCLOPEDIA, and CHILDCRAFT.

A few of the more important titles are shown on this and the following pages. Please write for the Complete Audio Visual Supply and Equipment catalogue.

TEACH-O-FILMSTRIPS

Teach-O-Filmstrips offer all the advantages of filmstrips in general, plus several distinctive features. Each filmstrip is designed as a complete experience in itself; that is, it opens with a few frames to set the stage, arouse interest, suggest a motive for learning, or introduce a story idea; it continues with a sequence of frames which develop understanding of whatever concepts and generalizations are needed for providing a well-rounded view of the basic theme; it concludes with a few summarizing frames and one or two frames suggesting problems or questions designed to test the children's grasp of the points made.

GEOGRAPHY—SOCIAL STUDIES

For Grades 5, 6, and 7

"EXPLORING THROUGH MAPS"

Four Teach-O-Filmstrips. 207 pictures, 53 of them in color, the balance in black and white — packaged in a colorful, permanent, book-like file box. Developed in cooperation with the World Book Encyclopedia. This provocative series describes in simple terms the principles of latitude and longitude, emphasizing map skills and the uses made of maps by men. Exploring Through Maps is the only existing filmstrip series on the subject of map study. Each filmstrip includes illustrated teaching guide.

S-16. COMPLETE SERIES of 4 FILMSTRIPS $16.50
- **300** Maps and Their Meanings 6.00
- **301** We Live on a Huge Ball 3.50
- **302** Flat Maps of a Round World 3.50
- **303** Maps and Men 3.50

SOCIAL STUDIES—GENERAL SCIENCE

Grades 7, 8, and 9

"CONSERVATION IS EVERYBODY'S BUSINESS"

Developed in cooperation with The World Book Encyclopedia and with appropriate agencies of the United States Government. Four Teach-O-Filmstrips — about 200 color pictures — packaged in a colorful, permanent, book-like file box. A vivid and interpretive study of the depletion of our natural and human resources. Also suggests ways in which adults and youngsters can help to conserve our resources. Each filmstrip includes illustrated teaching guide.

S-19. COMPLETE SERIES of 4 FILMSTRIPS $24.75
- **310** People, Our Most Valuable Resource . . . 6.50
- **311** Saving The Soil 6.50
- **312** Saving The Forests 6.50
- **313** Nothing Can Live Without Water 6.50

GEOGRAPHY—SOCIAL STUDIES

Grades 4, 5, and 6

"TRANSPORTATION AROUND THE WORLD"

Six Teach-O-Filmstrips. 295 black and white pictures packaged in a colorful, permanent book-like file box at no extra charge. The series is designed to enrich children's concepts of modern means of transport, to show how vehicles have changed as inventive skill has been increasingly applied to them and to contrast familiar methods of transportation with those used in less industrialized parts of the world. Each filmstrip includes illustrated teaching guide. Developed in cooperation with the World Book Encyclopedia.

S-15. COMPLETE SERIES of 6 FILMSTRIPS $19.50
- **304** Wheels, Animals and Men 3.50
- **305** Engines, Rails and Roads 3.50
- **306** Steam, Sail and Muscle 3.50
- **307** Water Travel Today 3.50
- **308** Conquering the Airways 3.50
- **309** Safety in Transportation 3.50

SOCIAL STUDIES

For Grades 4, 5, and 6

"LIVING TOGETHER IN THE UNITED STATES OF AMERICA"

Eight Teach-O-Filmstrips. 368 black and white pictures — packaged in a convenient storage box at no extra charge. These filmstrips give a cross-section view of life in the United States as well as detailed studies of particular aspects. Each filmstrip includes illustrated teaching guide.

S-13. COMPLETE SERIES of 8 FILMSTRIPS $20.00
- **5** Our Country, Its Resources and Its Workers 3.00
- **6** The Story of Our Food, Part I, Where Our Food Comes From . . 3.00
- **7** The Story of Our Food, Part II, From Farm to Table 3.00
- **8** How We Are Clothed 3.00
- **9** Our Homes and Our Communities 3.00
- **10** Communication in Our Country 3.00
- **11** Transportation in Our Country 3.00
- **12** Play and Recreation in Our Country 3.00

VISUAL EDUCATION TEACH-O-FILMSTRIPS

HOME ECONOMICS, HEALTH, DOMESTIC SCIENCE

For Grades 7, 8, and 9

"FOOD AND NUTRITION"

Five Teach-O-Filmstrips. 262 color pictures packaged in a convenient storage box at no extra charge. These filmstrips deal with the selection and use of foods. Each filmstrip includes illustrated teaching guide.

S-21. COMPLETE SERIES of 5 FILMSTRIPS $25.00
- **47** The Essentials of Diet 6.00
- **48** Eat Well! Live Well! 6.00
- **49** The Nutrients in Food 6.00
- **50** How Food Is Digested 6.00
- **51** Consumer Problems in Nutrition 6.00

LANGUAGE ARTS—SOCIAL STUDIES

Grades 5, 6, and 7

"HOW TO USE AN ENCYCLOPEDIA"

Developed in cooperation with The World Book Encyclopedia. This is the only existing filmstrip which prepares pupils for encyclopedia use. Contains photographs, drawings and blowups of actual pages from the encyclopedia. The filmstrip includes illustrated teaching guide.

68 INDIVIDUAL STRIP (50 black and white pictures) $3.00

SCIENCE

Grades 1, 2, and 3

"ON THE FARM WITH TOM AND SUSAN"

Six Teach-O-Filmstrips. 223 black and white pictures packaged in a convenient box at no extra charge. Reveals and explains scientific phenomena while following the adventures of two primary age children on a typical small farm. Each filmstrip includes illustrated teaching guide.

S-6. COMPLETE SERIES of 6 FILMSTRIPS $18.00
- **27** Visiting the Farm 3.00
- **28** Animals and Their Young 3.00
- **29** How Plants Live and Grow 3.00
- **30** Animal Homes 3.00
- **31** Tools and Simple Machines 3.00
- **32** Science Review 3.00

LANGUAGE ARTS

Grades 7, 8, and 9

"ALL ABOARD THE PUNCTUATION EXPRESS"

Six Teach-O-Filmstrips. 264 color pictures packaged in a convenient storage box at no extra charge. The appealing cartoon characters for each basic punctuation mark are effective in providing a real understanding in the use of punctuation marks. Each filmstrip includes illustrated teaching guide.

S-20. COMPLETE SERIES of 6 FILMSTRIPS $30.00
- **18** Presenting the Comma, Part I, The Series 6.00
- **19** Presenting the Comma, Part II, The Loose Part of the Sentence 6.00
- **20** Presenting the Comma, Part III, The Loose Part of the Sentence 6.00
- **21** Presenting the Apostrophe 6.00
- **22** Presenting the Colon, The Semi-Colon and the Dash 6.00
- **23** Presenting Quotation Marks 6.00

HISTORY

Grades 4, 5, and 6

"THE DISCOVERY AND EXPLORATION OF AMERICA"

Eight Teach-O-Filmstrips. 379 black and white pictures packaged in a convenient storage box at no extra charge. Presents the exciting story of America's early explorers in narrative form. Maps visualize important geographical concepts. Each filmstrip includes illustrated teaching guide.

S-14. COMPLETE SERIES of 8 FILMSTRIPS $24.00
- **33** The Age of Discovery 3.00
- **34** The Story of the Vikings 3.00
- **35** How Columbus Discovered America 3.00
- **36** Cortez Conquers Mexico 3.00
- **37** The Golden Age of Spanish Discovery 3.00
- **38** The English "Sea-Dogs" 3.00
- **39** The Founders of New France 3.00
- **40** A Review of the Discovery and Exploration of the New World 3.00

ARITHMETIC

Grades 1, 2, and 3

"PRIMARY ARITHMETIC"

Six Teach-O-Filmstrips. 260 color pictures packaged in a convenient storage box at no extra charge. Teaches a basic understanding of numbers and their use. Each filmstrip includes illustrated teaching guide.

S-10. COMPLETE SERIES of 6 FILMSTRIPS $30.00
- **52** What Numbers Mean 6.00
- **53** Zero a Place Holder 6.00
- **54** A Number Family in Addition 6.00
- **55** Compound Subtraction 6.00
- **56** The Threes 6.00
- **57** The Twos in Division 6.00

SOCIAL STUDIES

Grades 1, 2, and 3

"COMMUNITY HELPERS"

Six Teach-O-Filmstrips. 239 black and white pictures packaged in a convenient storage box at no extra charge. Shows the activities of people in various occupations. Each filmstrip includes illustrated teaching guide.

S-4. COMPLETE SERIES of 6 FILMSTRIPS $18.00
- **41** The Policeman 3.00
- **42** The Fire Department 3.00
- **43** How Messages Are Carried 3.00
- **44** Travel is Fun — Part I 3.00
- **45** Travel is Fun — Part II 3.00
- **46** Shopping In Our Neighborhood 3.00

GUIDANCE, CHILD PSYCHOLOGY TEACHER TRAINING

Teachers and Parents

"ALL CHILDREN NEED GUIDANCE"

Two Teach-O-Filmstrips. 103 color pictures packaged in a convenient storage box at no extra charge. Consists of all original photographs especially staged for use in filmstrips. This is the first attempt of an educational producer to develop filmstrips on the subject of child guidance. Developed in cooperation with Childcraft. Each filmstrip includes illustrated teaching guides.

S-25. COMPLETE SERIES of 2 FILMSTRIPS $14.00
- **350** Child Needs and Guidance 7.00
- **351** The Why and How of Guidance 7.00

TEACH-O-FILMSTRIPS – TEACH-O-DISCS – TEACH-O-SLIDES

STORY TELLING, READING, SOCIAL STUDIES

Grades 1, 2, and 3

"SNIPP, SNAPP, SNURR STORIES"

Seven Teach-O-Filmstrips. 140 color pictures packaged in a colorful permanent book-like file box. Sold only as a set. The Snipp, Snapp, Snurr stories are pictorial condensations of the charming books of the same titles by Maj Lindman. They are on the approved textbook and library lists of many state departments and local Boards of Education. Each filmstrip includes illustrated teaching guide.

S-3. COMPLETE SET OF 7 FILMSTRIPS $22.50

- **104** Snipp, Snapp, Snurr and The Red Shoes
- **105** Snipp, Snapp, Snurr and The Gingerbread
- **106** Snipp, Snapp, Snurr and The Magic Horse
- **107** Snipp, Snapp, Snurr and The Buttered Bread
- **108** Snipp, Snapp, Snurr and The Yellow Sled
- **109** Snipp, Snapp, Snurr and The Big Surprise
- **110** Snipp, Snapp, Snurr and The Big Farm

SOCIAL STUDIES—ENGLISH

Grades 7, 8, 9, 10, 11, and 12

"OUR AMERICAN HERITAGE"

Six Teach-O-Filmstrips. 280 black and white pictures packaged in a colorful, permanent book-like file box. Produced by The Reader's Digest. America's fastest selling filmstrip series is designed to give American youth the requisite knowledge and appreciation of their heritage of freedom. For adults, too. Each set includes a free teaching guide.

S-22. COMPLETE SERIES of 6 FILMSTRIPS $19.50

- **201** The Birth of Our Freedom 3.50
- **202** Freedom's Foundation 3.50
- **203** Freedom's Progress 3.50
- **204** Freedom Today 3.50
- **205** The Vocabulary of Freedom 3.50
- **206** The Literature of Freedom 3.50

TEACH-O-SLIDES

An interesting and colorful way of presenting the lesson. Each set includes a free teaching guide.

No. 501. ARITHMETIC, grades 1, 2, 3, set of 50 color slides $25.00

No. 502. NATURE STUDY, GEOGRAPHY, GENERAL SCIENCE, grades 7, 8, and 9. Set of 31 color slides 15.50

No. 503. HOME ECONOMICS, HEALTH, DOMESTIC SCIENCE, grades 7, 8, and 9. Set of 50 color slides 25.00

Filmstrip File Box Container. A colorful, permanent book-type box holds 12 filmstrip cans. Space on outside cover provides for listing 6 titles. Container, each 2.50

STORY TELLING, READING, SOCIAL STUDIES

Grades 1, 2, and 3

"FLICKA, RICKA, DICKA STORIES"

Six Teach-O-Filmstrips. 120 color pictures packaged in a colorful permanent book-like file box. Sold only as a set. Each filmstrip includes illustrated teaching guide. These strips are pictorial condensations of the appealing books of the same titles by Maj Lindman. The "Flicka, Ricka, Dicka Stories" are on the approved textbook and library lists of many state departments and local Boards of Education.

S-1. COMPLETE SERIES of 6 FILMSTRIPS $19.50

- **98** Flicka, Ricka, Dicka and the Strawberries
- **99** Flicka, Ricka, Dicka and Their New Friend
- **100** Flicka, Ricka, Dicka and The New Dotted Dresses
- **101** Flicka, Ricka, Dicka and The Girl Next Door
- **102** Flicka, Ricka, Dicka and The Three Kittens
- **103** Flicka, Ricka, Dicka and A Little Dog

TEACH-O-DISCS

Teach-O-Discs are double-faced, 12 inch records, 78 r.p.m., made of life-long unbreakable Vinylite. All selections are recorded complete unless notation indicates otherwise.

Safety Education. Grades 1, 2, and 3. Sing A Song of Safety. Includes 21 small talks on safety for little folks. Among the selections are: A Goof Plays on the Roof; Remember Your Name and Address, and An Automobile Has Two Big Eyes.

Album of two records 6.00

Intercultural Relations, Citizenship, Social Studies. Sing A Song of Friendship. Grades 5, 6, and 7. Includes 19 short talks on friendship, good neighbors at home and abroad, citizenship and patriotism. Some of the titles: I Know a Friendly City, Election Day, United Nations.

Album of four records 12.00

Literature Series. This well chosen group of records includes the works of many famous masters. Each record may be purchased separately. Among the selections available are many of the works of Shakespeare, including excerpts from Hamlet, The Ancient Mariner, The House of Seven Gables, and A Tale of Two Cities are also available. Several records include groups of well-known poems. Represented are the works of Tennyson, Longfellow, Whittier, Wordsworth, Byron, Pope, Coleridge, Browning, Keats, and Shelly, as well as many others. Consult our audio-visual catalog for complete listings.

Each record $3.00

MUSIC FOR CHILDREN

Young People's records are particularly planned to help the children develop a natural, unspoiled taste for good music. Each record has been planned to broaden the children's musical horizons, heighten their discrimination between music which is inferior and artificial and that which has merit.

Each record is psychologically and musically sound for its age group. Music and lyrics are approved before recording by the following board: Dr. Mary Fisher Langmuir, president of the Child Study Association of America; Dr. Howard Hanson, noted composer and conductor, director of the Eastman School of Music in Rochester; Professor Douglas Moore, well-known composer and head of the Department of Music, Columbia University; Mr. William Schuman, president of the Juilliard School of Music; and Dr. Randolph Smith, director of The Little Red Schoolhouse and director of Elizabeth Irwin High School.

Each new subject, before it is placed on the market, is pretested on children in classrooms and nursery schools. By this means these records have been judged and approved by the children themselves.

VOX MUSIC MASTER SERIES

For the first time records of classical music along a path of entertainment have been made at the age level of the children who will listen to the records. This series deals with the lives and music of the great composers and serves as stepping stones for your children toward interest in classical music. Each set consists of three ten-inch plastic records dealing entirely with one of a selection of eight great composers. Orchestrations are by the Vox Symphony orchestra conducted by Max Goberman and A. Tivernier. Narrated by Jose Ferrer, Floyd Mack, and Arnold Moss. Music and narration direction by Simon Rady, Jacques Canetti and George H. Mendelssohn.

PRICES

Nos. prefixed "aj": Each .99

Nos. prefixed "ak": Each 1.25

Nos. 300 through 725; Each 1.24

ALLEGRO RECORDS

AGE 2 THROUGH 5

aj 1 SINGING TIME WITH MOTHER GOOSE.
aj 8 LET'S PLAY ANIMALS.

AGE 3 THROUGH 6

aj 1 SIMPLE SIMON and other nursery songs.
aj 3 RING-A-ROUND THE ROSY and singing games.
aj 4 THE ELEPHANT AND THE FLEA, and funny songs for children. Child participation.
aj 5 SKIP TO MY LOU, funny songs.
aj 6 ALL AROUND THE MULBERRY BUSH, child participation.
aj 10 SICK IN BED, a self-recognition record.
aj 12 GOING TO SLEEP, a self-recognition record.

AGE 5 THROUGH 8

aj 13 THE NUTCRACKER SUITE for dancing, child participation.
aj 14 COWBOYS AND INDIANS, their songs and dances.
aj 21 THE PEER GYNT SUITE for dancing, a child participation record.

AGE 4 THROUGH 7

aj 15 THE BATHTUB SAILOR, sea shanties for children.
aj 16 THE WONDERFUL TAR BABY STORY, Uncle Remus, with music.
aj 18 THE SITTER WHO SAT, a self-recognition record.

AGE 4 THROUGH 8

aj 19 Songs from BABES IN TOYLAND.
aj 20 STICKS AND STONES.
aj 22 THE OWL AND THE PUSSY CAT, and other funny sea songs.

AGE 6 AND UP

ak 51 THE MIKADO, Gilbert and Sullivan for young people.
ak 52 BEETHOVEN piano music, for 1st and 2nd piano students.
ak 53 THE PIRATES OF PENZANCE, Gilbert and Sullivan for Young People.
ak 54 SQUARE DANCES FOR YOUNG PEOPLE.
ak 55 H.M.S. PINAFORE, Gilbert and Sullivan.

MUSIC MASTERS SERIES ALBUMS

251 MOZART, His Story and His Music (Three 10" Records)
252 CHOPIN, His Story and His Music (Three 10" Records)
253 MENDELSSOHN, His Story and His Music (Three 10" Records)
254 SCHUBERT, His Story and His Music (Three 10" Records)
255 SCHUMANN, His Story and His Music (Three 10" Records)
256 GRIEG, His Story and His Music (Three 10" Records)
257 TSCHAIKOVSKY, His Story and His Music (Three 10" Records)
260 BEETHOVEN, His Story and His Music (Three 10" Records)

PRICE

Per Album of 3 10" Records 4.25

ak 56 from ALICE IN WONDERLAND, the Jabberwocky and Soup Song.
ak 57 IOLANTHE, Gilbert and Sullivan for Young People.
ak 58 PICKING UP PAW PAWS; SHOO FLY; TAKE A LITTLE PEEK, folk dances for young people.

ALL AGES

aj 7 the BIRTHDAY RECORD, a child participation
aj 9 PETER AND THE WOLF
aj 25 THE GREAT BIG PARADE
aj 26 THE SHMOO SINGS

CHRISTMAS RECORDS

ay 101 CAROLS FOR CHRISTMAS

AGE 2 THROUGH 6

601 MUFFIN IN THE CITY
603 MUFFIN IN THE COUNTRY
605 PLAYTIME SONGS
609 PENNY WHISTLE
611 THE SLEEPY FAMILY
615 THE LITTLE FIREMAN
617 WHEN THE SUN SHINES
619 LITTLE INDIAN DRUM
701 AROUND THE WORLD

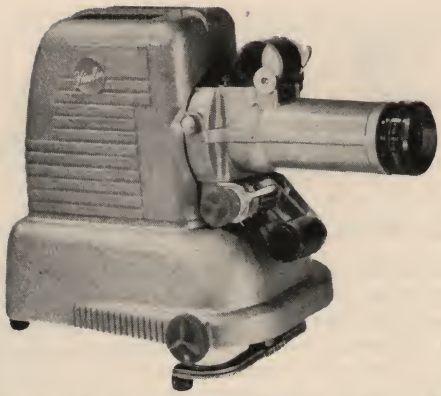
YOUNG PEOPLE'S RECORDS

702 WHAT THE LIGHTHOUSE SEES
703 LITTLE BRASS BAND
705 HAPPY BIRTHDAY
706 TRAINS AND PLANES
710 THE BELLS OF CALAIS
711 BUILDING A CITY
712 RAINY DAY
713 THE CIRCUS COMES TO TOWN
714 WHOA! LITTLE HORSES LIE DOWN
715 THE WALTZING ELEPHANT
716 THE LITTLE COWBOY
717 WHO BLEW THAT WHISTLE?
719 FUNNIEST SONG IN THE WORLD
720 THE MUSIC LISTENING GAME
721 THE RUNAWAY SHEEP
722 SING ALONG
724 OUT-OF-DOORS
725 WHEN I GROW UP

AGE 7 THROUGH 11

301 GOING WEST
309 LENTIL
311 THE WONDERFUL VIOLIN
313 MOZART COUNTRY DANCES
317 EVERYBODY DANCES, Mozart
403 LET'S ALL JOIN IN
404 THE BIRTH OF PAUL BUNYAN
405 FOLK SONGS FOR ORCHESTRA
406 UNDERGROUND TRAIN
407 IGOR STRAVINSKY for young people
408 THE MUSIC OF AARON COPELAND
409 CHISHOLM TRAIL
410 JAZZ BAND
411 SAID THE PIANO TO THE HARPSICHORD
414 CONCERTINA THAT CROSSED COUNTRY
420 LICORICE STICK
425 ADVENTURES OF DANIEL BOONE
426 THERE SHE BLOWS
428 SILLY STUFF
1001 TOY SYMPHONY
1003 A SUMMER DAY
1007-B EMPEROR'S NEW CLOTHES
1009 RONDO FOR BASSOON AND ORCHESTRA
424 DECEMBER ALMANAC
427 WORKING ON THE RAILROAD

PROJECTION MACHINES



Positive framing — five second threading — full reverse — will not tear or scratch film.

VIEWLEX—SLIDE—SLIDE FILM PROJECTORS

Viewlex projectors are engineered to exacting requirements to give the best in projection service.

Model AP2C—Combination slide and film strip projector, with 5″ coated lens. In carrying case 67.00

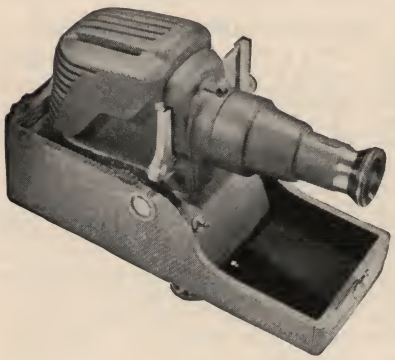
Model AP22C—Combination slide and film strip projector with 5″ coated lens. Motor driven fan coated 300 watt lamp. With carrying case 86.75

Model AP3—Slide projector with 5″ coated lens. In carrying case 39.50

Model AP33—Slide projector with 5″ coated lens. In carrying case. Motor fan cooled 59.25

Write for complete descriptive folder

THE REFLEX



This model is built into the case for compactness and usefulness. Triple condensing lenses allow maximum light output and a hurricane blower keeps the projector cool. Each part is precision engineered and carefully tested. A 300 watt brilliance gives even illumination on the screen. For 2¼ x 2¼″ slides.

No. 349. Reflex projector, complete 74.75

THE MASTER

This precision optical instrument gives more brilliant screen images in both color and black and white. It enables you to show the full range of slides—3¼x4″ down to 2x2″, plus single and double frame filmstrip. A changeover from slides to filmstrip is accomplished in a matter of seconds, without tools. Critical focusing to hairline sharpness is made easy and the projection lens is built to stay secure. Beam control is adjustable, eliminating dark corners. Quick locking tilt control with a convenient knob. Substantially constructed, yet light weight and conveniently portable, this machine is made in an attractive modern design. 500 Watts.

No. 447. The Master, complete with case 83.50

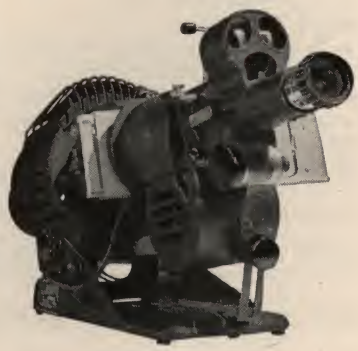
For further information or a demonstration, write this office or consult our representative. We will be glad to fill your needs.

THE MANUMATIC

A number of factors combine to make this machine one of the best on the market. This model has a motor driven forced air cooling system; triple condensers; heat filter; hairline focus with the precision optical system a slide carrier; bulb protection and easy bulb change; easy adjustment and modern design. For 2x2″ Kodachrome or black and white slides.

No. 300-P-1042. Manumatic Slide Projector, complete with carrying case 64.25

THE ALL-PURPOSE

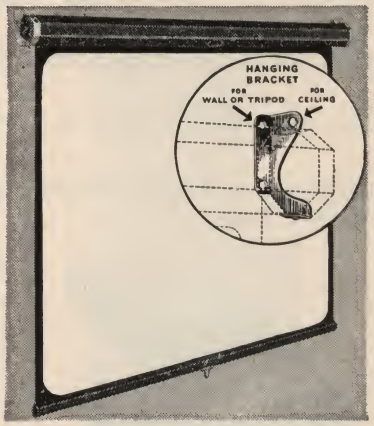


This 1000 watt, all-purpose, double blower cooled projector is unmatched in versatility. It features precision optical system, utmost safety and high power illumination, as well as a wide choice of lenses for image size and projection distance. Non-slip, fast, hair-line focusing. Custom built carrying case also available.

No. 1048. All-purpose, complete with carrying case 167.75

SCREENS AND ACCESSORIES

PERMANENT HANGING SCREEN



For permanent installation in classroom, lecture hall, etc. "Crystal-Beaded" screen unrolls from handsome gray metal case. Has "built-in" wall and ceiling hangers. Sturdy roller takes up screen smoothly, out of the way and fully protected when not in use.

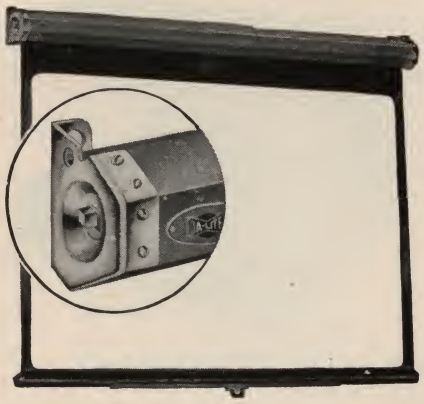
30"x40"	12.00	52"x70"	28.50
40"x40"	13.50	70"x70"	36.25
37"x50"	16.25	63"x84"	49.50
50"x50"	19.00	84"x84"	60.50
45"x60"	24.25	72"x96"	68.25
60"x60"	28.50		

PORTABLE SCREEN

Serves those who need a *large* portable screen. With this accessory, the Model C in all sizes through 9'x12' sets up anywhere easily and quickly. To elevate screen in room without platform, merely set on table, desk, or box. All aluminum, folds away for compact storage, and assembles in less than 5 minutes. Safe, sturdy, and practical.

6'x8'	50.50	8'x10'	52.75
8'x8'	52.80	10'x10'	54.00
7'x9'	50.50	9'x12'	52.75
9'x9'	52.75		

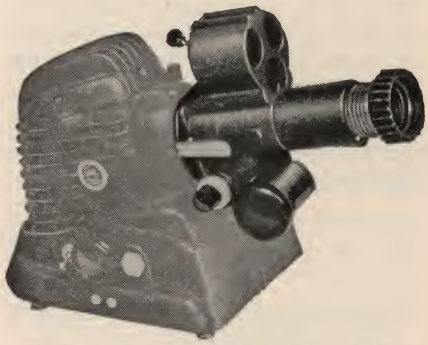
LARGE HANGING SCREEN



Wall and ceiling hanging screen to accommodate larger audiences in auditorium, lecture hall, etc. Ruggedly built. Rigid 2½" and 3" metal rollers and long reinforcing saddle at "pull down" point insure a non-sagging, flat-hanging picture surface. Endcaps have "built in" wall and ceiling hangers. Equipped with fine "Crystal-Beaded" screen surface.

6'x8'	94.50	8'x10'	123.00
8'x8'	100.00	10'x10'	134.00
7'x9'	103.50	9'x12'	176.00
9'x9'	110.00	12'x12'	192.00

THE FILMATIC TRI-PURPOSE



This projector can be used for single frame slidefilm; for double frame slidefilm; for 2x2 (35-mm.) Kodachrome or black and white slides. It has a feed capacity up to 300 single frame film slides. Easily the most practical and useful machine for schools and churches, it combines many advanced features such as: motor driven forced air cooled system; non-rewind design; uses either 300, 200 or 100 watt lamp; easily adjustable for instant framing or horizontal and vertical pictures; fast accurate focusing; heat filter gives added protection. Comes equipped with manumatic slide carrier.

No. 1043. The Filmatic with carrying case 86.75

DE LUXE TRIPOD SCREEN

For showing films in various locations, the De Luxe Challenger Tripod Screen has been first choice in schools, churches, etc. for over 25 years. Sets up quickly. Easily carried. Famous "Crystal-Beaded" picture surface for bright, sharp projection. Handsome blue metal case with patented flat back that won't wear screen surface. Richly plated tripod has "no scratch" feet, adjusts to 4 height positions. Sturdily built and guaranteed to give years of trouble-free service.

30"x40"	22.55	45"x60"	37.40
40"x40"	24.75	60"x60"	44.55
37"x50"	29.70	52"x70"	46.20
50"x50"	32.70	70"x70"	54.00

FOR MOVIES AND SLIDES	STANDARD SCREEN SIZES									
LENS FOCAL LENGTH	40" x 40"	50" x 50"	60" x 60"	70" x 70"	84" x 84"	8' x 8'	9' x 9'	10' x 10'	12' x 12'	14' x 14'
	APPROXIMATE DISTANCE — PROJECTOR TO SCREEN									
3"	7'	9'	11'	13'	16'	18'	20'	22'	27'	31'
4"	10'	13'	15'	18'	21'	24'	27'	30'	36'	42'
5"	13'	16'	19'	22'	26'	30'	34'	38'	45'	53'
6"	15'	18'	22'	25'	30'	35'	39'	44'	52'	61'
7"	17'	21'	26'	30'	36'	41'	46'	51'	61'	71'

RECORD PLAYERS

MODEL No. 578

STREAMLINED PORTABLE CARRYING CASE of Leatherette, Compact, Sturdy and Lightweight. Plays 12" records with covered closed.

PICKUP ARM is of light weight with a sealed moisture proof crystal eliminating noise to a minimum and prolonging life of the records.

SEPARATE VOLUME CONTROL to regulate your desired volume from a whisper to the full realism of an orchestra.

FULL RANGE TONE CONTROL incorporating the Symphonic Bass and Treble Expansion features assures you the Bass of the 'Cello to the Treble of a Piccolo.

TRANSCRIPTION PLAYER

3 TUBE (Super performance) AMPLIFIER of latest design and skillfully engineered circuit using highest quality material and filtered for superb faithful reproduction of high fidelity.

6½" HIGH FIDELITY G. E. SPEAKER. Extra heavy No. 5 "Alnico Permalloy" permanent magnet assures auditorium reproduction of a full pleasing tonal quality.

HEAVY DUTY MOTOR is especially designed for playing records recorded at 33⅓ R.P.M. and records at 78 R.P.M. The shift from one speed to the other is accomplished by simply moving a lever. Governor controlled permitting range of 5 per cent above and below rated speed by adjusting speed regulator lever.

Size — 21" long, 17½" wide, 7¼" deep.

115-volts, 60 cycle, A.C. 69.90

MODEL No. 538

RECORD PLAYER

3 TUBE (Super performance) AMPLIFIER of latest design and skillfully engineered circuit using highest quality material and filtered for superb reproduction of high fidelity.

5½" HIGH FIDELITY G. E. SPEAKER of extra heavy No. 5 "Alnico Permalloy" permanent magnet assures auditorium reproduction of a full pleasing tonal quality.

The MOTOR is a Rim Drive 78 R.P.M., 115-volts, 60 cycles A.C. Constant Speed. Trouble-Free from hum or noise.

Size—15½" long, 14¼" wide, 7" high 31.80

MODEL No. 528

RECORD PLAYER

TWO-TUBE AMPLIFIER of Latest Design. skillfully engineered circuit, to give 3-Tube performance, using Highest Quality material and Filtered for Superb reproduction of console tone. Two Watts undistorted: Four Watts maximum.

HIGH FIDELITY G. E. SPEAKER, of extra heavy No. 5 Alnico Permalloy Magnet to assure high quality tonal reproduction.

The MOTOR is a Rim Drive 78 R.P.M., 115-volts, 60 cycles, A.C. Constant Speed. Trouble-Free from hum or noise.

Size—13" long, 13" wide, 7¼" high 28.80

THE AUDIO MASTER "51"

The problem of how to accommodate the various types of records now on the market interchangeably and on a single unit has been masterfully solved by the Audio-Master record player. This top-quality, versatile, portable, light-weight and flexible unit is the answer to standard 78 r.p.m., 33⅓ r.p.m. and 45 r.p.m. discs, for it plays them all. In addition, a public address system is incorporated within the unit. This unit has: 8" speaker, 4 tube amplifier, 3 speed motor with indicator, twist crystal with 2 permanent needles, microphone jack for public address system use, special earphone jack, tone control, volume control, and ten feet of cord for the detachable speaker.

Audio-Master "51"

Complete unit weighs only 15 pounds. This unit carries a 90 day guarantee.

Price 64.50

THE AUDIO-MASTER "JR."

This Audio-Master Jr. is the most appealing portable record player with console-quality tone at low cost.

This player has 2 tube amplifier, 3 speed motor with speed indicator, light-weight tone arm with one semi-permanent needle which plays all speeds—33⅓, 45, and 78 r.p.m. 5" speaker, Volume and Tone controls.

The unit is completely enclosed within a sturdy compact case with fabricoid cover.

Price complete 24.95

Same as above except with 3 tube amplifier.

Price complete 34.95

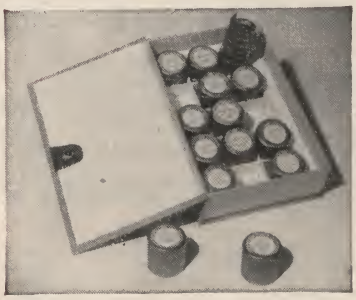
FILM FILING EQUIPMENT AND ACCESSORIES

FILM PROTECTION CABINETS

A humidified, dustproof, fireproof cabinet for storing films is supplied with this handy, desk-type storage unit. The all-steel indexed sections provided, allow for selection of the desired films, while keylocks assure their safe keeping. The drop shelf provides ideal work surface and rewinders and splicers, when permanently mounted will clear the reels when the door is closed. The cabinet above is fitted with two MM-20 innovation sections to increase storage facilities to 120 reels. This type cabinet may also be purchased with only the single upper section which allows for storage of 80 400-ft. reels.

DC-200 (with extra sections) 300.00
DC-175 (with single upper section) 225.00

FILM FILE BOX



These boxes will accommodate 15 filmstrips in cans.

Leatherette-covered box 3.00
Cloth-covered box, book style 2.50

If we have not shown your own special need in the audio-visual field on these pages, please write us and we will be glad to quote prices.

FILM FILE CABINET

The increasing use of filmstrips or micro-films has made their filing and storage an important problem. This efficient, compact cabinet takes care of this problem in a neat, orderly way. Made entirely of steel, it is finished in a grey ripple. The cabinet has a 270 filmstrip capacity and each drawer has five divisions in it. The drawers are equipped with convenient curved pulls and each drawer has a label which may be used to describe its contents. It is ideal for school use in that each drawer may be used for a separate subject such as history, geography, etc. This cabinet is lightweight yet sturdily constructed, making it more simple for children or teachers to handle.

No. 270. Filmstrip cabinet 35.60

SNAP-IT SLIDE BINDERS

This new Snap-it binder was specifically designed to overcome many disadvantages of other binders and to present to slide binder users a simple, inexpensive and permanent binder to solve all slide binder problems for 35 mm. transparencies, both black and white and full color. They don't warp; the glass pressure plates hold film flat and the edges are non-fraying. The corners are smooth and a perfect register is allowed from front to back. The binders are reusable, aluminum, lightweight and there is no cardboard to shred on film. Made for the simplest mounting, they also are the fastest mounting by time test. The frictionless edges are of shock-proof construction and the identification marker can be felt in the dark. Each binder is of uniform thickness.

Box of 20 binders 2.15
Box of 100 binders 9.95

PROJECTION TILT TABLES

Top tilts to any angle up to 10" rise, smoothly and evenly by two sets of spiral gears controlled from one hand wheel. Two rigid shelves for reels, etc. Size 30" long, 16" wide, 36" high.

Model T-134 74.50
With Ball Bearing Rubber Covered Casters 84.50

SLIDE FILE CABINET

This heavy gauge fireproof slide cabinet is for filing and storing all types of 2x2" slides, readymounts, glass, etc. Of welded construction throughout, it has five drawers, each with backstops for full use when the drawer is open. Index card holders make quick easy selection of films possible. Drawers are easily removable. Finish is in olive-grey enamel, baked-on, while handles and index card holders are polished chrome. Overall size, 15" wide, 12" deep, 13" high.

Model SF-5, holds 1250 slides or 2500 readymounts 49.50
Model SF-5-A, holds 2500 slides or 5000 readymounts filed in series or blocked units 49.50

SLIDE FILE BOX

These leatherette - covered indexed boxes are fitted with exclusive plastic inserts. They are made in sizes to accommodate from 50 to 500 2x2" slides.

For 50 slides 2.25
For 100 slides 3.50
For 250 slides (with handle) 7.50
For 500 slides (with handle) 12.50

LIQUID PROCESS DUPLICATORS

Model No. L-45

Model No. L-47

The extreme simplicity of operation in these liquid duplicators makes them the perfect duplicators for inexperienced operators. Anyone can turn out clean, errorless copies of anything written, typed or drawn without even getting their hands dirty. Each duplicator has been tested and factory pre-determined to a point where operation is practically fool-proof. Few moving parts mean less wear-out and attention needed, practically eliminating the service problem. No need to buy extra gadgets with this duplicator!

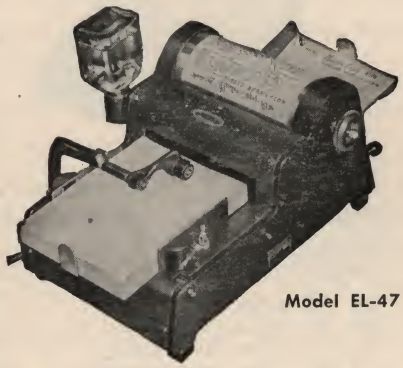
Model L-45, Hand Operated. Longer runs of more uniform copies from each master are assured by an exclusive roller moistening principle on this duplicator. One copy is delivered for each turn of the handle. The fluid supply is always visible and can be drained and re-used, a distinct economy. Fool-proof automatic paper feed handles paper from post card size to 9x14" in various weights of stock with full page printing. Precision built to meet the strictest requirements, this machine is finished in black, stain-proof crinkle.

Price complete with automatic paper feed and re-set counter 199.50
Duplicator Cabinet, add to above price 49.50

Model L-47, Hand Operated Duplicator, produces copies at the lowest possible cost and without priming, turns out brilliant, uniform reproductions, one for each turn of the handle, face up and ready to use. A timed front paper stop assures each copy registering as the preceding and the following. Full page printing is made easy and side guides adjust to permanent positions for letter, legal and post card size inserts. The fluid supply is always visible and may be re-used as long as it lasts. Master sheets can be filed and used again, eliminating waste of paper. Made in a two-tone gray hammerloid finish.

Price, complete with automatic paper feed, cover and re-set counter 244.50
Duplicator Cabinet, add to above price 49.50

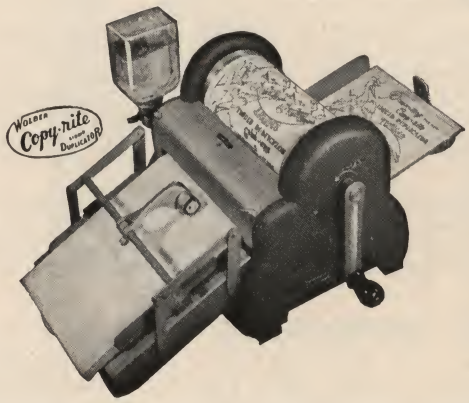
ELECTRIC DUPLICATOR


Model EL-47

Model EL-47, Electrically Operated. For lightning fast and efficient service. This model has a quiet concealed motor that will operate continuously. Roller moistening eliminates wicks and pumps while an automatic cut-out prevents damage to motor from overloading or jamming. This machine has an automatic paper feed, automatic master sheet lock and release, and an exclusive air lock gravity feed to keep an even flow of fluid in the machines at all times. The feed tray will take a full ream of copy paper and handles all paper from post card to 9 x 14" size.

Price complete with automatic paper feed, cover and re-set counter 399.50

DUPLICATOR AND SUPPLIES



ECONOMY DUPLICATOR

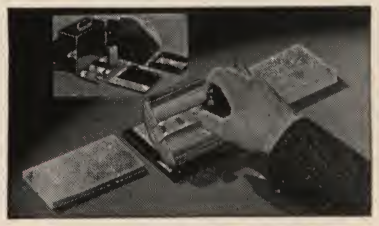
So economical any office or school can own it. So simple anyone can use it!

This new economy liquid duplicator has value and quality that you can see and touch. It is priced to convince the most budget-minded and has simplicity of operation to convince the most efficiency-minded. It has everything to make it a "natural" for the biggest or smallest school or office.

Easily loaded copy paper is smoothly pushed into the duplicator by the positive automatic paper feed. Each turn of the handle gives one ready-to-use, face up, clear reproduction. Fluid supply always visible. Handles paper and card stock from post card to 9x14" size. No wicks nor pumps and, of course, no stencils, gelatin, ink, type or ribbons. Smartly styled in handsome two-tone gray finish. Upsweep feed tray. High quality at an economical price.

Model L-150 ..... 139.50
Duplicator Cabinet (shown on opposite page) 49.50

DUPLICATING SUPPLIES



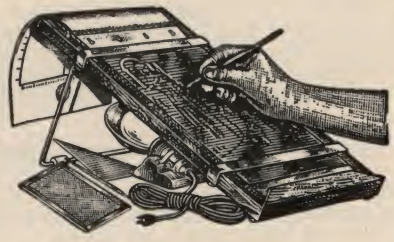
LETTERGRAPH POSTCARD PRINTER

Fast, Simple Operation — Automatic Inking — Accurate Registration Carrying Case

Message is quickly hand written, hand printed, drawn or typed on small, inexpensive stencil sheet. Inking is automatic. Simply squeeze the contents of a tube of ink into Printer.

Printing Base furnished (exclusive Heyer feature) assures accurate registration of printing on every card and speeds up printing. Sells complete with Supplies: Carrying Case, 4 Stencils, 2 Tubes of Ink, Bottle of Correction Fluid, Stylus, Printing Base and Instruction Book. Shipping weight 5 lbs.

Complete 12.50



PORTABLE CLEAROSCOPE

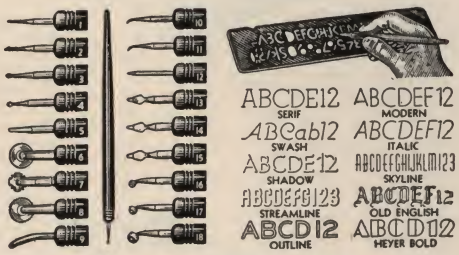
Greatly Simplifies Drawing and Tracing on Stencils

Takes Any Standard Stencil—Light Weight and Portable—Adjusts to Any Angle — Well Ventilated — Remains Cool

Interesting cartoons, compelling illustrations, attractive lettering, ruled forms, etc., are much more easily drawn or traced with the aid of the Heyer Portable Clearoscope. The illustration to be copied is placed on the ground glass and the writing plate and stencil clamped over it. Two adjustable clamps hold the top and bottom of the stencil allowing complete freedom of both hands. The handy light reflector which is mounted on a solid base may be moved about to direct the maximum light where it is needed.

Complete with: Large Writing Plate (8½ x 18"), Celluloid Triangle, Ruling Stylus, Sharp Stylus, 8 in 1 Shading Screen and Lamp Base with Reflector, Cord and Plug. Shipping weight 9 lbs.

Complete 15.50



A FINE STYLUS FOR EVERY USE
MOULDED PLASTIC HANDLES

No.		Each
S-1	Sharp Point	.45
S-2	Small Ball	.45
S-3	Medium Ball	.45
S-4	Large Ball	.45
S-5	Flat Ruling	.45
S-6	Fine Wheel	1.25
S-7	Broken Line	1.25
S-8	Dotted Line	1.25
S-9	Shading	.45
S-10	Lettering	.50
S-11	Lettering	.50
S-12	Ex. Sharp	.45
S-13	Fine Wire	.60
S-14	Medium Wire	.60
S-15	Heavy Wire	.60
S-16	Fine Shading	1.25
S-17	Medium Shading	1.25
S-18	Course Shading	1.25
S-19	Music Staff	2.50

LETTERING GUIDES

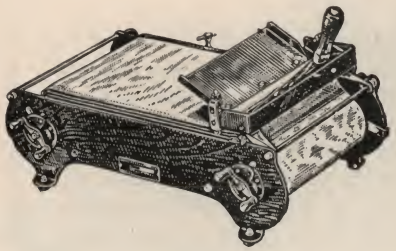
Available in following sizes:
STREAMLINE—¼, ⅜, ½, ⅝, ¾ in.
SHADOW—¼ to ¾ in. inclusive.
SKYLINE—⅜ to 1 in. inclusive.
SERIF—$\frac{3}{16}$ to ¾ in. inclusive.
ITALIC—⅛ to ¾ in. inclusive.
MODERN—⅛ to ¾ in. inclusive.
HEYER BOLD—¼, ⅜, ½ in.

⅛ or $\frac{3}{16}$ in. guides. Each	1.75
¼ in. guides. Each	1.85
⅜ or ½ in. guides. Each	2.00
⅝ in. guides. Each	2.25
¾ in. guides. Each	2.50
1 in. (Skyline only). Each	2.75
Outline—½ in. only (alphabet and numerals)	3.00
Swash—$\frac{3}{16}$ in.	2.50
Swash—¼ in.	2.75
Old English—½ or ¾ in.	2.50

Send for complete lettering guide catalog

GELATIN DUPLICATORS

SUPER EFFICIENCY DUPLICATOR



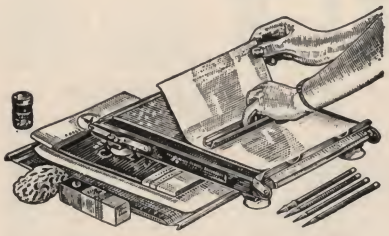
For extra-speedy reproduction of bulletins, menus, programs, price lists, etc., this easy-to-operate gelatin roll duplicator is a top-notch performer in school, office, club or church. Inexpensive but built for hard use, the Super Efficiency Duplicator features a semi-automatic paper feed which produces more copies from one original than would be possible were the same machine hand-fed. Copies are vivid and accurate. The 15-foot-long gelatin roll presents a fresh surface at all times and may be rolled back and forth and reused without washing old ink from the surface. In 36 to 48 hours the inked surface will "clear" itself and may be used again and again. This is highly desirable where there is a steady flow of duplicating to be handled. Any combination (or all eight) of the colored inks may be used at one time.

Maximum printing area is 8½ x 14, but any size paper may be used. Streamline construction of durable pressed steel finished in Heyer Strato-Grey with nickel trim. Complete with 15-ft. roll, bottle Hekto Ink, 12 sheets Hekto Carbon, Hekto Pencil, tube Ink Remover, Leatherette Cover and complete Instruction Book. Shipping weight 37 lbs. Complete 57.50

EFFICIENCY DUPLICATOR

Teachers and businessmen are enthusiastic over this budget-priced Efficiency Duplicator, unsurpassed for rapid, concise reproduction of lesson sheets, programs, menus, bulletins, and price lists. Low in cost and high in output, this smoothly-performing machine fills every requirement for limited runs. A 15-foot-long gelatin roll (8¾" wide) keeps a fresh working surface available at all times. Old ink will sink from the surface in 36 to 48 hours, leaving the roll surface "clear" for the next set of copies. The roll may be turned back and forth—used again and again. This is particularly convenient when a continual flow of duplicating must be handled. No experience is necessary to become a proficient operator in one try. Maximum printing area is 8½ x 14, but any size paper may be used. Sturdily constructed of heavy-gage metal finished in the new Heyer Strato-Grey trimmed in nickel. Complete with 15-ft. Gelatin Roll, bottle of Hektograph Ink, Sponge, Smoother, Leatherette Cover and complete operating instructions. Shipping weight 26 lbs. Complete 34.95

JUNIOR EFFICIENCY DUPLICATOR



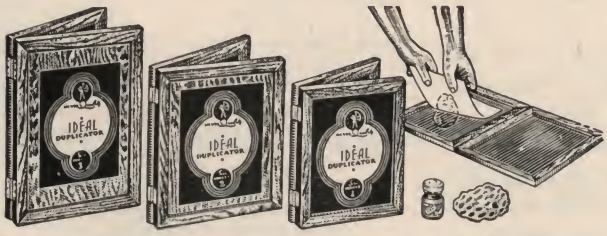
At a sensational low price this bantam weight, changeable film duplicator offers many advantages to anyone who needs 50 or 75 copies of anything written, typed or drawn. Schools, clubs and small offices find it perfect for short runs.

Speedily changed gelatin films give the Duplicator added life every time fresh film is inserted. Each film may be used 20 to 30 times before replacing because old ink need not be washed from the surface before applying new copy. (Ink from each job will sink safely away from the surface in 36 to 48 hours). As many as 8 different colors may be used at one time.

Maximum printing area is 8½ x 13, but any size paper may be used. Metal paper guide assures fast, accurate feeding. Suction-cup feet hold tightly without marring fine furniture. Sturdily constructed of heavy gage metal. Complete with 2 Films, Film Cover, 4 Colored Hekto Pencils, Bottle Hekto Ink, 3 sheets Hekto Carbon Paper, tube Hekto Ink Remover and Sponge. Shipping weight 8 lbs. Complete 9.75

INEXPENSIVE DUPLICATORS FOR THE TEACHER, OFFICE, ETC.

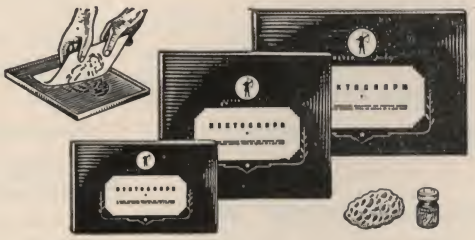
IDEAL DUPLICATORS



Made of strong, substantial oak frames, hinged together to form units of two and four copying surfaces. Remaining ink impression need not be washed off after use as on Hektograph. Alternate surfaces are used to minimize wear. Sold complete with bottle Hektograph Ink, Sponge and complete operating instructions.

Note Size, 7x10"			
No. 1. 2-surfaces	6.50	**No. 6.** 4-surfaces	9.75
Letter Size, 9x11½"			
No. 2. 2-surfaces	8.00	**No. 7.** 4-surfaces	12.00
Legal Size, 9x14"			
No. 3. 2-surfaces	9.25	**No. 8.** 4-surfaces	13.75
Folio Size, 11x17"			
No. 4. 2-surfaces	12.00	**No. 9.** 4-surfaces	18.00

HEKTOGRAPH DUPLICATORS



Operates very simply and will make 50 to 100 copies from one original. The Hektograph is a single surface, pan duplicator with a metal cover to keep out dust when not in use. After the required number of copies have been made, the remaining ink is washed from the surface and the Hektograph is then ready for re-use. Sold complete with a bottle of Hektograph Ink, Sponge and complete instructions.

No. 21. Note size, 6¼x10"	2.75
No. 22. Letter size, 10x12"	3.75
No. 23. Legal size, 10x15"	4.40
No. 24. Folio size, 12x18"	11.50

DUPLICATING SUPPLIES

MIMEOGRAPH STENCILS

These stencils are well suited for either typewritten or extensive stylus work. Blue stencils packed in one quire boxes with inner protective wrapping. State make and model of machine on which stencils are to be used.

Letter size, per quire	3.35
Legal size, per quire	3.50

CORRECTION FLUID

Liquid stencil correction fluid in applicator bottle.

No. 112. ½ oz. bottle	.30

MIMEOGRAPH INKS

A high quality ink made on a special formula for fast drying and free flowing qualities

No. 998. Black. For automatically inked duplicators. Two ½ lb. cans, per lb.	2.50
No. 999. Black. For inside brush-inked and fountain brush duplicators, per lb.	2.50
No. 150. Black. For hand-inked duplicators, ½ lb. can	1.30
No. 151. Black. For hand-inked duplicators, lb. can	2.50
No. 400. Black. For Post Card Printer, 2 oz. tube	.50

COLORED INKS

Blue or Purple Ink, ½ lb. can	1.50
Blue or Purple Ink, 1 lb. can	2.90
Red, Green, Brown, Orange, Yellow Ink, ½ lb. can	1.50
Red, Green, Brown, Orange, Yellow Ink, 1 lb. can	2.90
White Toner (for tinting above inks), ½ lb. can	1.50

SPIRIT PROCESS FLUID

Formulated to produce the finest spirit duplicated copies, and the maximum number of copies. Will not harm tanks, pumps, or any parts of your duplicating machine. Copies stay flat and are quick drying. Produces clean, sharp impressions. Complete with pouring spout.

No. 472. Pint can	.75
No. 475. Gallon can	3.00

SCHOOL SERVICE DUPLICATOR CARBON PAPER

To produce the maximum number of clear, vivid copies on your spirit process or gelatine process duplicator, a superior quality carbon paper is needed. School Service carbon fills this need.

Packed 100 sheets per box. Each box contains 4 folds of 25 sheets each.

This carbon has been coated to eliminate soiling of the hands and prevent aging of carbon.

SPIRIT PROCESS CARBON

No. L11. 8½x11. Per box	3.00
No. L13. 8½x13. Per box	3.35

GELATIN PROCESS CARBON

No. G-11. 8½x11. Per box	3.00
No. G-13. 8½x13. Per box	3.35

SPIRIT MASTER UNITS

To facilitate handling of separate carbon paper and master paper these units have been devised. Each unit is ready made 2-part form consisting of master and carbon sheets. After master has been made, carbon and master are separated along perforated line. Packed in boxes of 100 units.

LONG RUN UNITS (300 copies)

No. LR-11. 8½x11. Per box	4.50
No. LR-13. 8½x13. Per box	5.00

SHORT RUN UNITS (200 copies)

No. SR-11. 8½x11. Per box	3.35
No. SR-13. 8½x13. Per box	3.65

HEKTOGRAPH INK

Contains a high concentration of dye. Purple ink is strongest of all.

Purple, red, green, blue, black, brown, orange and yellow.

1 oz. bottle	.35

HEKTO INK REMOVER

A creamy, pleasantly scented compound of harmless chemicals that quickly removes Hektograph, Stamp Pad and other ink stains from the hands. Simple and effective to use, leaves the skin clean, soft and smooth.

No. 334. 2 oz. tube	.30
No. 335. 8 oz. tube	.60
No. 336. 1 lb. can	1.00

GELATIN FILMS

For Junior Efficiency, Standard, Gel-Sten, Ditto and other gelatin film duplicators. Same high grade material as our gelatin rolls. When ordering specify make and model of duplicator used.

No. 31. Each	1.30	Dozen	8.75

GELATIN ROLLS

For Heyer, Ditto, Vivid and Other Gelatin Roll Duplicators

Heyer rolls combine the strongest backing material with a thick, uniform coating of gelatin composition. All are 15′ long and are available in either amber or white composition. When ordering please specify amber or white composition; name and model of duplicator to be used.

No. 201. 8¾″ roll on 8¾″ spindle, each	7.75
No. 202. 8¾″ roll on 14″ spindle, each	7.75
No. 203. 10″ roll on 14″ spindle, each	8.90
No. 204. 12″ roll on 14″ spindle, each	10.15
No. 205. 14″ roll on 14″ spindle, each	11.35
No. 206. 14″ roll on 18″ spindle, each	11.35
No. 207. 16″ roll on 18″ spindle, each	14.00
No. 208. 18″ roll on 18″ spindle, each	14.85
No. 209. 20¾″ roll on 21″ spindle, each	16.15
No. 210. 22″ roll on 22″ spindle, each	17.50

REFILLING COMPOSITION

For refilling Hektographs, Ideals, and other pan-type, gelatin duplicators. Can of composition is melted and contents poured into pan or frame to be refilled.

No. 280. 1 lb. can	1.50
No. 281. 2½ lb. can	3.50
No. 282. 5 lb. can	6.50
No. 283. 10 lb. can	12.50

HEKTOGRAPH PENCILS

Standard size wood pencils with extra intense copying leads. Purple is strongest and will produce up to 60 good copies.

Purple:			
Each	.18	Dozen	1.75
Red, Green and Blue:			
Each	.23	Dozen	2.25

HEKTO TYPEWRITER RIBBONS

Purple is strongest and will produce 75 to 100 copies. Specify make and model of typewriter.

No. 270. All purple, each	1.00

CONTINENTAL MASTER WORKBOOKS

for Liquid and Gelatin Duplicators

LIQUID WORKBOOKS $3.00 each -- HECTOGRAPH WORKBOOKS $1.00 each

HAPPY TRAILS IN NUMBERLAND
Grade 1 (First Semester)
30 Masters - 60 Lessons per title. Number concepts 1 to 10.

HAPPY TRAILS IN NUMBERLAND
Grade 1 (Second Semester)
30 Masters - 60 Lessons per title. Numbers 1 - 20 - Informal addition and number combinations are included.

EXPLORING NUMBERLAND
Grade 2 (First Semester)
30 Masters - 60 Lessons per title. Concrete and abstract number combinations to 10.

EXPLORING NUMBERLAND
Grade 2 (Second Semester)
30 Masters - 60 Lessons per title. Concrete and abstract number combinations to 20. Reading, writing and matching of numbers.

ADVENTURES IN NUMBERLAND
Grade 3 (First Semester)
30 Masters - 60 Lessons per title. Computation and problem solving. Addition and Subtraction.

ADVENTURES IN NUMBERLAND
Grade 3 (Second Semester)
30 Masters - 60 Lessons per title. Addition and Subtraction - Multiplication and Division.

BUILDING IN NUMBERLAND
Grade 4
30 Masters - 60 Lessons per title. Four fundamentals plus easy fractions with numerator of 1.

SEASONAL ROOM DECORATIONS
Elementary Grades
30 Masters - ($8\frac{1}{2}$ x 11). Large line drawings for all the seasons of the school year.

SCHOOL HOLIDAY POSTERS
Elementary Grades
30 Masters - ($8\frac{1}{2}$ x 11). Large line drawings for special days of the school year.

MONTHLY ART AIDS
Elementary Grades
30 Masters - ($8\frac{1}{2}$ x 11). Calendar and helps for each month of the school term, September through June.

HOLIDAYS AND PLAYDAYS
Elementary Grades
30 Masters - ($8\frac{1}{2}$ x 11). Full page line drawings covering the holidays of the whole school year.

EXPLORING GOOD ENGLISH
Grade 2
30 Masters - 60 Lessons per title. Base and guide lines for writing. Each exercise presents a story.

ADVENTURES IN GOOD ENGLISH
Grade 3
30 Masters - 60 Lessons per title. Sentences, capitals, punctuation, abbreviations, word study and letter writing.

BUILDING GOOD ENGLISH
Grade 4
30 Masters - 60 Lessons per title. Interesting correlations with Nature Study, Social Studies and Fiction.

USING GOOD ENGLISH
Grade 5
30 Masters - 60 Lessons per title. 25 pages of correct usage. Nouns, pronouns, adjectives, dictionary work, and letter writing.

MASTERING GOOD ENGLISH
Grade 6
30 Masters - 60 Lessons per title. Functional grammar and 25 pages of correct usage. Kinds of sentences.

WE LEARN TO READ
Grade 1 - Part 1
30 Masters - ($8\frac{1}{2}$ x 11). Vocabulary checked. Used with any text. Large drawings.

WE LEARN TO READ
Grade 1 - Part 2
30 Masters - ($8\frac{1}{2}$ x 11). Follows Part 1. Correct vocabulary. Used with any text.

WE LEARN ABOUT NUMBERS
Grade 1
30 Masters - ($8\frac{1}{2}$ x 11). A beginning book with number experiences 1 - 20.

WE LEARN TO ADD AND SUBTRACT
Grade 2
30 Masters - ($8\frac{1}{2}$ x 11). Suitable with any text. Easy drill. Gradual difficulty.

CONTINENTAL MASTER WORKBOOKS

for Liquid and Gelatin Duplicators

LIQUID WORKBOOKS $3.00 each -- HECTOGRAPH WORKBOOKS $1.00 each

PHONICS - FUN IN WORDLAND
Grade 1 - First Semester - A
30 Masters - ($8\frac{1}{2}$ x 11). Progressive development of a basic Phonics Program in this 6-book series. Provides training in visual discrimination through pictures and puzzles. Used with any Reading Series.

PHONICS - FUN IN WORDLAND
Grade 1 - Second Semester - B
30 Masters - ($8\frac{1}{2}$ x 11). Rhymes initial and final consonants. Stimulates interest in printed page.

PHONICS - A TRIP THROUGH WORDLAND
Grade 2 - First Semester - C
30 Masters - ($8\frac{1}{2}$ x 11). Thought provoking puzzle pictures promote interest in vowels and consonants.

PHONICS - A TRIP THROUGH WORDLAND
Grade 2 - Second Semester - D
30 Masters - ($8\frac{1}{2}$ x 11). Meaningful, interesting exercises of blends, digraphs and rhymes.

PHONICS - ADVENTURES IN WORDLAND
Grade 3 - First Semester - E
30 Masters - ($8\frac{1}{2}$ x 11). Usage and understanding of syllables, rhymes, long and short vowels.

PHONICS - ADVENTURES IN WORDLAND
Grade 3 - Second Semester - F
30 Masters - ($8\frac{1}{2}$ x 11). Double and single consonants between vowels. Basic reading skills are developed through meaningful puzzles and pictures.

ADDITION AND SUBTRACTION OF FRACTIONS
Grades 5 - 12
30 Masters - ($8\frac{1}{2}$ x 11). Each page devoted to a single step: (1) Example (2) Explanation (3) Practice.

MULTIPLICATION AND DIVISION OF FRACTIONS
Grades 5 - 12
30 Masters - ($8\frac{1}{2}$ x 11). Each page devoted to a single step: (1) Example (2) Explanation (3) Practice.

WORKING WITH DECIMALS
Grades 5 - 12
30 Masters - ($8\frac{1}{2}$ x 11). Each page devoted to a single step: (1) Example (2) Explanation (3) Practice.

WORKING WITH PERCENTAGE
Grades 7 - 12
30 Masters - ($8\frac{1}{2}$ x 11). Each page devoted to a single step: (1) Example (2) Explanation (3) Practice.

OUTLINE MAPS (Western Hemisphere)
Elementary Grades
30 Masters - ($8\frac{1}{2}$ x 11). Detail purposely omitted for increased pupil activity.

OUTLINE MAPS (Eastern Hemisphere)
Elementary Grades
30 Masters - ($8\frac{1}{2}$ x 11). Detail purposely omitted for increased pupil activity.

A B C BOOK
Grades 1 and 2
30 Masters - ($8\frac{1}{2}$ x 11). Large drawings to introduce each letter of the alphabet.

CHILDREN OF MANY LANDS
Elementary Grades
30 Masters - ($8\frac{1}{2}$ x 11). Illustrations of children of 30 nations. No text except children's names and their countries.

ANIMALS AND BIRDS AND THEIR BABIES
Elementary Grades
30 Masters - ($8\frac{1}{2}$ x 11). Large drawings of pets, birds, farm animals and animals of the zoo.

MASTERING THE SENTENCE
Grades 7 - 12
30 Masters - 60 Lessons per title. Exercises covering the grammar of the sentence and the art of sentence structure.

MASTERING PARTS OF SPEECH
Grades 7 - 12
30 Masters - 60 Lessons per title. Unusually interesting and concise study with emphasis on mastery.

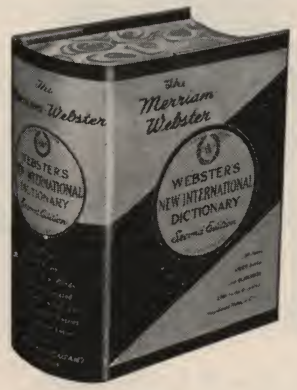
MASTERING GOOD USAGE
Grades 7 - 12
30 Masters - 60 Lessons per title. Content has been carefully checked against usage lists.

MASTERING CAPITALIZATION AND PUNCTUATION
Grades 7 - 12
30 Masters - 60 Lessons per title. All items for practice are selected according to functional needs.

MUSIC MASTERS
All Grades
30 Masters - ($8\frac{1}{2}$ x 11). 9 staffs per master. Suitable for writing music for band and orchestra.

DICTIONARIES

WEBSTER'S NEW INTERNATIONAL DICTIONARY
Second Edition



This "foundation book of education" is the most generally used book in the schoolroom. It puts reliable information on every subject in the curriculum at the finger tips of teachers and students.

The acquisition of this big unabridged dictionary lessens the need for investment in a multitude of special works of reference. Equivalent in type matter to a multivolume encyclopedia, it costs less than seven-tenths of a cent per page. When the long life of the dictionary is considered, its cost per year is but an infinitely small percentage of the total book budget. It is the best buy per dollar of cost in the whole world of books. 600,000 entries; 12,000 terms illustrated; magnificent color plates; 3,350 pages.

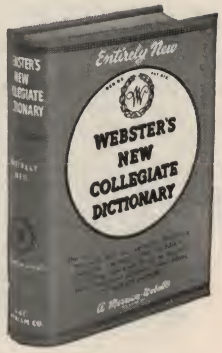
Regular-Paper Style, 12⅜ x 9¾ x 5 inches. Weight, 16½ lb.

No. 1. Buff Buckram, marbled edges, indexed 27.00
No. 2. Tan Fabrikoid, marbled edges, indexed 31.50

India-Paper Style, 12⅜ x 9¾ x 3 inches. Weight, 9½ lbs.

No. 5. Tan Legal Buckram, sprinkled edges, indexed 33.75
No. 6. Full Leather, dark brown, sprinkled edges, indexed 40.50

WEBSTER'S NEW COLLEGIATE DICTIONARY

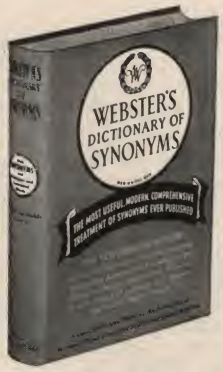


This is a completely new book. Created by the same editorial staff that produced Webster's New International Dictionary, *Second Edition,* it is the latest in the famous Webster's Collegiate series and surpasses all other handy-size dictionaries in convenience, authority, usefulness, and up-to-dateness. A favorite of students with its authoritative definitions, exact pronunciation, and accurate etymologies. Over 125,000 entries, 2,300 terms illustrated.

Thin-Paper Style, 7⅛ x 10 x 1¾ inches. Weight, 3⅛ lbs.

No. 8. Tan Cloth, plain edges, without thumb index 4.50
No. 9. Merriam Buckram, dark blue, sprinkled edges, indexed 5.40
No. 10. Red Fabrikoid, sprinkled edges, indexed 6.75
No. 11. Leather, Levant Grain, black, gold edges, indexed 9.00
No. 12. Limp Pigskin, dark blue, gold edges, indexed 11.25
No. 13. Limp Pigskin, light brown, gold edges, indexed 11.25

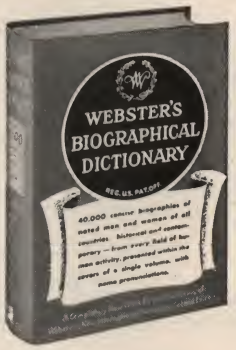
WEBSTER'S DICTIONARY of SYNONYMS



The most comprehensive work of its kind ever published. Includes full coverage of antonyms, and analogous and contrasted words. Alphabetically arranged and fully cross-referenced, it is a handy student guide to the use of the right word in the right place. For all courses in the effective use of the English language, written or spoken. A best seller and standard work in the field of synonyms. 940 pages. Size, 7⅛ x 9⅞ x 1¼ inches. Weight, 2½ lbs.

No. 41. Tan Library Buckram, indexed 4.50

WEBSTER'S BIOGRAPHICAL DICTIONARY



Contains some 40,000 concise biographies of notable men and women from every country and period of history all within the compass of a single volume. Alphabetically arranged, it is a handy guide to essential facts—birth and death dates, important accomplishments, family relationships, influence on history. A valuable quick-reference source book for every course in the curriculum. 1,700 pages. Size, 7⅛ x 9⅞ x 2 inches. Weight, 4¼ lbs.

No. 43. Brown Library Buckram, indexed 6.75

MERRIAM-WEBSTER DICTIONARY TABLE

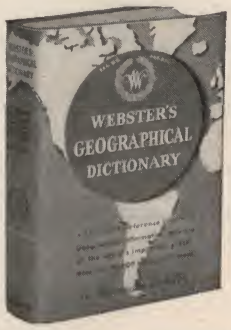
This sturdy table is designed to hold the unabridged dictionary, or other large reference book, for easy consultation either from a standing position or by using a chair of average height. The large casters (removable if desired) permit the table to be moved about with ease.

Early American in design, the table is built of solid walnut, with a natural finish. Suitable for home, yet will withstand hard usage in school, library, or office.

Size, 30 in. high x 24 in. wide x 12½ in. deep. Weight, 23 lb.

No. 30 25.00

WEBSTER'S GEOGRAPHICAL DICTIONARY



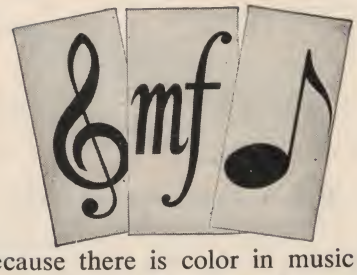
This is a completely new and unique volume in the famous Merriam-Webster series of dictionaries, unlike any other reference book available. The greatest fund of current geographical information obtainable in a single volume. More than 40,000 of the world's important places with complete geographical and historical information. Includes all incorporated cities, towns, and villages in the U. S. and Canada with 1,500 or more population. 177 maps, including 24 full-page maps in color; 126 useful tables; complete guide to pronunciation. 1,352 pages.

Size 7⅛ x 9½ x 2 inches. Weight, 3¾ lbs.

No. 45 7.65

MUSIC AIDS – REFERENCE STANDS

MUSIC FLASH CARDS



Because there is color in music as well as form, these 78 music symbol flash cards have been printed in red, providing a definite visual appeal to the music student. The cards measure 8x4" and may be used either for drill or as classroom border. Both choral and instrumental classes will profit by their use.

No. 2150 ..... 1.35

DO YOU NEED OTHER MUSIC SUPPLIES?

To fill your further music needs, we have listed in our catalog a number of other supplies. On page 205 music paper, staff lined with blue ruling in two sizes is found. Gyrol bound music composition books, 7x8½" in size, are listed on page 202 of the catalog. Records and record players are found on pages 86, 87, and 90 of the catalog, while pages 162 and 163 show rhythm band supplies. Blackboard staff liners are listed on page 83. We shall be glad to try to fill any of your music needs, even though they may not be listed in this catalog. Please consult our representative or write to this office for further information.

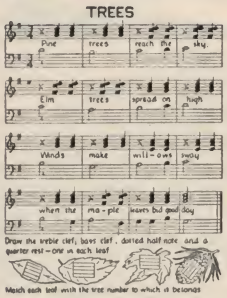
REVOLVING DICTIONARY STAND

This stand may be used for any large reference book and on any table or desk. It revolves easily and the slope of the shelf is made just right for easy reading. The felt covered base is 12 inches in diameter. The book shelf is 3 inches high in front, 8 inches in back, 23 inches long and 13 inches wide.

Made of the best grade selected oak antique finish. Shipping weight, 37 pounds.

No. 935. Birch-Brown finish 9.00

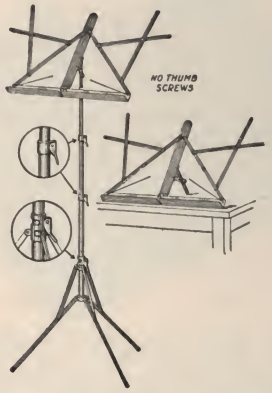
MUSIC COLORING BOOK



This musical coloring book of forty-eight pages has been designed to serve a three-fold purpose – that of aiding in the teaching of music, nature study and art. The little tunes can be played and sung by beginning piano students. They have been written in suitable range for elementary study in grades two through four. The words in the songs tell nature stories while the illustrations have been drawn for coloring. Space has also been set aside for the student to create songs and pictures of his own.

No. 3402 ..... .50

MUSIC STAND



This combination stand is made with an extra wide shelf and a locking device which holds it in position securely. Constructed of heavily nickel plated brass tubes, it measures 17" when folded and when fully extended measures 56½". The desk section is adjustable to any position, and may also be used as a table stand. The legs are adjustable to any position and are provided with rubber cushions.

No. 400 N ..... Per doz. 22.80

REFERENCE BOOKCASE AND DICTIONARY STAND

FRONT AND REAR VIEW

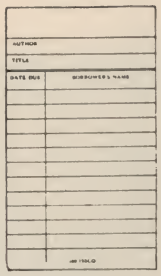
This case and stand is planned to take care of the reference books used in the school-room. It may also be used as a reading stand. The top has sufficient slope to make reading easy. The shelves are of the right height to admit standard encyclopedias. The height at back is 42", the width is 25", and the shelves are 11¾" deep.

Made of the best grade birch, with a three-ply one-piece back, all finished in standard brown dull lacquer. The case is shipped knocked-down, and can be put together in a few minutes, as all parts fit perfectly. F.O.B. Factory.

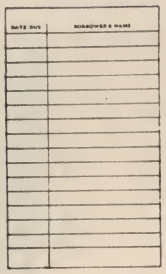
No. 930. Shipping weight, 60 lbs. 25.00

LIBRARY CARDS AND POCKETS

BOOK CHARGING CARD



Front

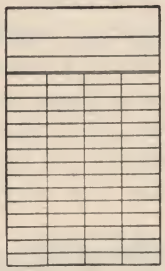


Back

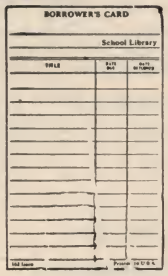
A 3x5″ card with printed headings for author, title, date due, and borrower's name. These cards are furnished in white, buff and salmon. White is sent when color is not given.

No. 160. Per 500 ..... 1.50
No. 160. Per 1000 ..... 2.85

BOOK CARDS



No. 161



No. 162

A salmon card, 3x5″ ruled on both sides with four columns wide enough for dater and blank at top for typewriter spacing.

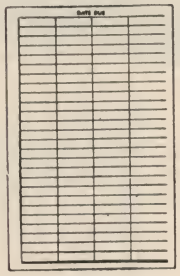
No. 161. Per 500 ..... 1.50
No. 161. Per 1000 ..... 2.85

BORROWER'S CARD

A 3x5″ white card with printed heading for names of borrower and school and on both sides are columns for title, date due and date returned.

No. 162. Per 500 ..... 1.50
No. 162. Per 1000 ..... 2.85

DATE DUE SLIP

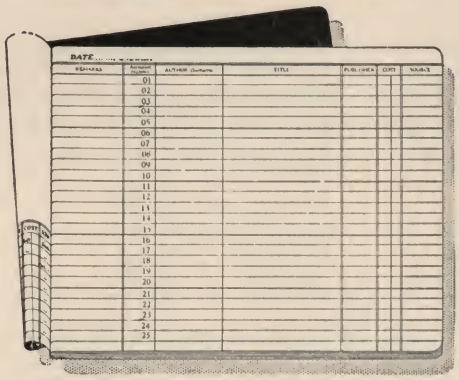


No. 170

Printed on strong bond paper, with four columns, 3x5″.

No. 170. Per 500 ..... .90
No. 170. Per 1000 ..... 1.70

SIMPLIFIED ACCESSION BOOKS



Made of strong ledger paper with durable pressboard covers. Books are half numbered, units and tens, repeated throughout. Pages are 10 x 11¾″ in size, 25 lines to page. Columns for remarks, accessions number, author, title, publisher, cost and source, in order named.

No. 180. 500 Lines 1.00
No. 181. 1000 Lines 1.20
No. 182. 2000 Lines 2.00

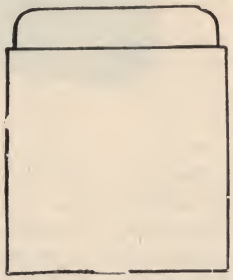
LOOSE LEAF ACCESSION BOOKS

These three ring binders, which open easily, are made of heavy binders' board, covered with black imitation leather.

The sheets made of ledger paper 10x 11¾″, 25 lines to a page, punched to fit binder.

1000 lines with cover 2.80
2000 lines with cover 3.60
5000 lines with cover 5.00
20 extra sheets (1000 lines) .... .80
100 extra sheets (5000 lines) .. 3.00
Binders only 2.00

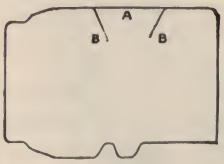
LIBARY CARD POCKETS

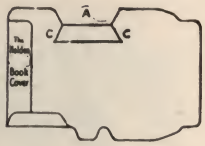


Made of manila tag board, folded and sealed, all ready to paste in book. Will hold card 3x5″.

No. 94. Per 250 ..... 1.40
No. 94. Per 500 ..... 2.65
No. 94. Per 1000 ..... 5.00

HOLDEN BOOK COVERS





Blue Unfinished Leatherette

Size	Less than 1000 Covers Per 100	Over 1000 Covers Per 1000
No. 1	3.20	25.70
No. 2	3.70	27.60
No. 3	4.00	29.50
No. 3G	6.30	50.00
No. 4	6.70	51.00
No. 6	9.90	93.80

Tri-Leatherette Quality

No. 1	3.00	23.10
No. 2	3.40	25.50
No. 3	3.70	27.60
No. 3G	5.80	44.70
No. 3X	6.00	45.20
No. 4	6.00	45.20
No. 6	9.50	86.30

Good Will Quality

No. 1	2.70	21.40
No. 2	3.00	23.10
No. 3	3.40	25.60
No. 3G	5.40	36.50
No. 3X	5.70	38.50
No. 4	5.70	38.50
No. 6	8.80	84.00

No. 1. Small Books.
No. 2. Average Size Books.
No. 3. Larger Books—Dictionaries.
No. 4. Geography and Similar Books.
No. 3G. Social Science and Literature Books.
No. 3X. Bookkeeping and Music Books.

Holden Tool Chest

Holden Tool Chest containing one box of self binders, one box of "T" binders, 2 envelopes of transparent paper, one roll adhesive tape, one roll double stitched binder, one roll transparent cloth.

Standard Chest 2.50
Jr. Chest 1.65

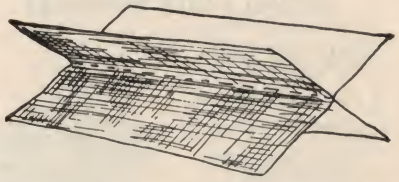
Catalog Card

A white cross ruled card with two vertical lines and top line in red.

No. 112. Per 500 ..... 1.85
No. 112. Per 1000 ..... 3.30

LIBRARY SUPPLIES

SINGLE STITCHED BINDER



Made of two strips of gummed cloth tape, single stitched lengthwise through the center. Used for fastening loose leaves and covers and making cloth hinge for easy turning.

Rolls ¾" x 15' or 1" x 12'.
Per roll.... .40 Dozen.... 4.40
Rolls ¾" x 50 yds. Each..... 2.60
Rolls 1" x 50 yds. Each..... 3.00

PERFORATED ADHESIVE CLOTH

Made of the same material as our Single Stitched Binder and perforated in the center. A very simple and easily folded hinge.

Rolls ¾" x 24' or 1" x 18'.
Per roll.... .35 Dozen.... 3.85

ADHESIVE CLOTH

This strong cloth gummed on one side, is furnished in white, slate and black.

Package of 16 strips 1" x 9" or roll 1" x 144". Each... .25 Dozen.... 2.75
Roll 1" x 50 yds, white only..... 1.85

ADHESIVE PARCHMENT PAPER

A gummed transparent paper for mending torn leaves. Furnished in strips and large sheets.

Package of 18 strips 1½" x 8½".
Each..... .15 Dozen 1.65
Sheets 10" x 25". Each .15 Doz. 1.65

SILK FINISH ADHESIVE CLOTH

Used for fastening weakened bindings and replacing cloth at the back of books when worn or torn. Furnished in black, brown, green, blue and red. Put up in rolls enclosed in a box.

1" x 12' 2" x 6' 3" x 4' 4" x 3'
State color and size
Per roll.... .35 Dozen.... 3.50
25 yd. roll—2" 2.80 3" 4.20 4" 5.50

RECASING LEATHER

This artificially grained imitation leather will last longer than leather itself and is very attractive. Used for recovering backs of books. The colors are fast, bright and waterproof. Colors: black, dark blue, light blue, red, green, brown, and tan.

Per sq. yd. 1.65 Doz. sq. yds. 16.50
Bxd.—2" x 86", 3" x 58" or 4" x 43".
Per box.... .45 Dozen.... 4.50
25 yd. rolls—2" 3.20 3" 4.00 4" 5.85

BINDER CLOTH (Art Vellum)

For replacing backs, ungummed. Furnished in red, green, brown, tan, black, blue, grey and orange. Each roll in a convenient box.

Rolls 3½ in. wide, 3 yards long.... .50
Sheets 36 in. wide, per yard..... 1.35

SELF-SEALING BOOK REPAIR TAPE

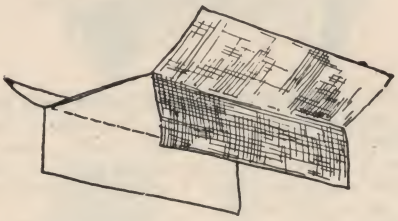
Repair and strengthen bindings of reference books, scrap books, photograph albums and magazines with MYSTIK Book Repair Tape.

Durable and strong—MYSTIK Tape is easy to use. It tears neatly to the desired length or width and can be used for repairing record cases and files and labeling shelves, files, etc.

Six colors: Brown, Black, White, Red, Green, Blue.

	108" Long		540" Long	
	Each	Dozen	Each	Dozen
⅜" wide..	.15	1.65	—	—
¾" wide..	.25	2.75	1.00	11.00
1½" wide..	.50	5.50	—	—
2" wide..	.67	7.37	2.67	29.37
3" wide..	1.00	11.00	4.00	44.00
4" wide..	1.34	14.74	5.34	58.74

DOUBLE STITCHED BINDER



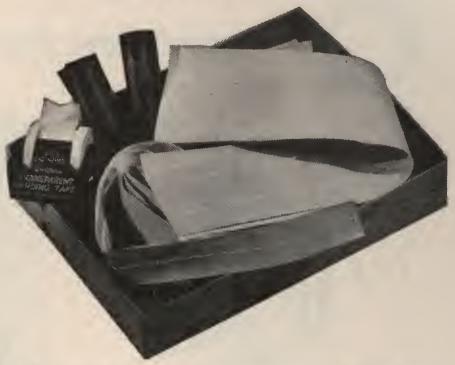
Made of two strips of gummed cloth, white and grey, and used for fastening covers which have broken away from the contents. The margin or hinge is ⅝ in. on either side of stitching and the space between stitching varying from ½ in. to 3 in. and put up in rolls from 4 feet to 8 feet long according to width. Each roll in a neat box.

Specify width desired when ordering.
Width between stitching, ¼, ½, ¾, 1, 1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, and 3 inches.
1 roll..... .60
12 rolls..... 6.60

25 Yard Rolls

¼ inch....	3.30	1¾ inch....	5.60
½ inch....	3.65	2 inch....	6.00
¾ inch....	4.00	2¼ inch....	6.40
1 inch....	4.40	2½ inch....	6.80
1¼ inch....	4.80	2¾ inch....	7.20
1½ inch....	5.20	3 inch....	7.60

BOOK REPAIR OUTFIT



This strong durable box contains the necessary materials for the immediate repair of books, consisting of single and double stitched binders, transparent adhesive tape, silk adhesive cloth, loose leaf binder and white adhesive cloth.

Per box..... .50 Dozen..... 5.00

BINDERS' AWL

Sharp pointed, 1½ inches long, set in 4 inch wooden handle.

Each..... .25 Dozen.... 2.75

BONE FOLDERS

Used for folding and rubbing down gummed materials. 8 inches long.

Each..... .45 Dozen..... 4.50

BOOKBINDERS' THREAD

An imported linen cord, flax covered and satin finished, 65 yards to skein.

Each..... .35 Dozen.... 3.85

BOOKBINDERS' NEEDLES

Imported, with eyes especially adapted to binder's thread. 25 needles to package.

Per package.. .25 Doz. pkgs... 2.75

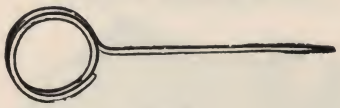
END PAPER

For repairing books. A tough kraft, cut with the grain. Furnished in grey. Put up in 100 sheet packages, 6x8 inches and 8x12 inches.

Per package, 6x8..... .30
Per package, 8x12..... .60

MISCELLANEOUS OFFICE SUPPLIES

CARD HOLDERS



No. 2

No. 1

No. 23

No. 1. 144 to box..... 1.00
No. 2. 100 to box..... .25
No. 23. 144 to box..... 2.50

PASTE STICKS

No washing or storing problem with paste sticks. Just use — then throw away.

No. 310. 500 sticks 4½ inches long.
Per pkg..... .50

PASTE CUPS

Made of white opal glass with nickeled screw caps. Hold ½ oz. paste. For individual use at pupil's desk.

No. 659.
Dozen.... 1.00

PASTE BRUSHES

Made of strong bristles with aluminum ferrule and black enamel handle 2⅝" long.

No. 1533. Each ..... .08
Dozen ..... .90
No. 533. 8" handle, ¾" wide.
Each ..... .27
Dozen 2.70

RUBBER CEMENT

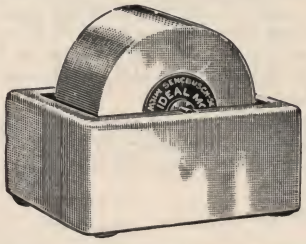
Paper Cement is available in a size for every purpose, for large consumers and small. Paper cement is the quickest and easiest adhesive for all papers. It forms a firm flat bond that will not wrinkle, curl or shrink even the thinnest paper. Excess can be removed by rubbing with the finger. Does not smudge.

	Each	Dozen
2¼ oz. tubes	.30	3.00
Half pint brush-in-cap	.65	6.50
Pint cans	.80	8.00
Quart cans	1.35	13.50
Gallon cans	3.95	39.50
SOLVENT AND THINNER		
Pint can	.45	4.50
Gallon can	1.95	19.50

UTILITY CEMENT

This clear, flexible, waterproof cement will permanently mend nearly everything but rubber, including china, glass, wood, leather, metal, paper and fabrics. It is not affected by either heat or cold, or moisture and is packed in a handy, screw-top tube, ready for instant use.
Per tube ..... .30
Per dozen tubes..... 3.00

SANITARY MOISTENERS



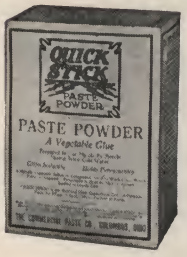
For general use. Will moisten gummed paper, stamps, etc. Made of glazed porcelain, metal parts polished nickel plate. Indispensable in the school, and absolutely sanitary 4¼ x 3¼". Color: White.
Each 2.00
IDEAL JUNIOR—Base is 2¼ x 2½". Roller is 1½" in diameter by 1⅝" wide. Each..... .75

RUBBER CEMENT OR LIQUID PASTE DISPENSER

An adjustable dispensing brush which moves up and down, comes complete with an empty ½ pint size bottle for use with rubber cement and liquid paste. The brush is made of Chungking bristles.

No. 493BR. . 1.25

QUICK STICK PASTE POWDER



A perfect paste in powder form. Mix quantity needed as required. Put up in 1-lb. packages only.

Each .... .20
Dozen ... 2.20

LE PAGE'S LIQUID GLUE

		Each	Dozen
No. 10.	Bottle	.15	1.50
No. 30.	4 ounce can...	.45	4.50
No. 31.	½ pint can...	.75	7.50
No. 32.	1 pint can	1.25	12.50
No. 33.	1 quart can ..	2.25	22.50

LE PAGE'S GRIP SPREADER MUCILAGE

No. 7. Small size.
Each. .10 Dozen. 1.00

No. 77. Large size
Each. .25 Dozen. 2.50

SCHOOL AND LIBRARY PASTE

SANFORD'S LIBRARY PASTE

The finest grade of paste obtainable. Does not dry out, and always ready for use. Sticks instantly and holds firm. For mounting photos, pasting scrap books, making paper flowers, for school, office and general use. Will not stain.

	Each	Doz.
No. 435. Gallon jars	3.75	37.50
No. 431. Quart jars	1.15	11.50
No. 432. Pint jars	.70	7.00
WATERWELL JAR		
No. 533. 8 oz. size	.60	6.00

TRI-TIX RUBBER CREAM GLUE
Made with Natural Rubber Latex

Waterproof—Permanent—Clean—Flexible
For Home, School or Office

Tri-Tix has a creamy texture which makes it easy to apply with the fingers or with an applicator. Clean to work with, the excess easily rubs off materials and fingers without the usual stickiness. It will not wrinkle thin materials nor warp heavy materials. It's waterproof and will not dry out. Sticks indefinitely.

There are thousands of uses for Tri-Tix in the school, home or office.

	Each	Dozen
No. 201. 2 oz. jar	.35	3.50
No. 202. 4½ oz. jar	.70	7.00
No. 203. 8 oz. jar	1.25	12.50
No. 204. Pint jar	2.25	22.50
No. 205. Quart jar	4.25	42.50
No. 206. Gallon jar	16.00	160.00

SCHOOL SERVICE PASTE

THE SUPERIOR SCHOOL PASTE

School Service Paste has for many years been the most popular paste for school as well as office and home use. This paste is ideally suited for all types of art and craft work. It does not stain or discolor paper or clothing. School Service Paste spreads smoothly and does not deteriorate if kept in closed jar when not in use.

	Each	Case
No. 399. Gallon jars, 4 per case	2.00	7.50
No. 398. Quart jars, 12 per case	.60	6.00
No. 397. Pint jars, 12 per case	.40	4.00

CARTER'S RUBBER CEMENT

This rubber cement spreads smoothly without stringing, will not wrinkle thinnest paper, rubs off paper and fingers, and allows paper to be moved after placing.

No. 840. Gallon	3.95
No. 841. Quart	1.30
No. 842. Pint	.80
No. 845. 4 oz. jar	.30

SANFORD'S SCHOOL PASTE

A slow drying paste for use on all types of porous papers and where large surfaces are to be covered. This inexpensive paste is especially recommended for poster work and for school children.

	Each	Doz.
No. 748. Gallon glass jars	2.40	26.40
No. 751. Quarts	.85	9.38
No. 752. Pints	.55	6.05

WRITING INKS AND INK ERASERS

SANFORD'S INKS

PERMANENT COLORS

No. 271 Blue-Black
No. 221 Blue
No. 231 Black
No. 241 Red
No. 211 Green

WASHABLE COLORS

No. 251 Blue
No. 261 Black

Sanford's Penit ink has been formulated to give peak performance in either fountain pens or straight pens. Quart and pint sizes have handy pour-out spouts. Specify color.

	Red Only		All Colors Except Red	
	Each	Dozen	Each	Dozen
Gallon	5.40	54.00	4.50	45.00
Quart	1.50	15.00	1.30	13.00
Pint	.90	9.00	.80	8.00
2 oz. bottle	.15	1.50	.15	1.50

CARTER'S RYTOFF

A One Solution Ink Eraser

For removal of fresh writings and blots from paper, Rytoff is the instantaneous answer. With Glass Rod Applicator.

No. 495 .30
No. 499 .15

WATERMAN'S INK

Waterman's Inks are world-famous for smooth, even writing. Still made to the original formula, although constantly improved, these inks are *all* ink—no dilution, no harmful solvents, nothing added. That's why Waterman's permanent inks last as long as the paper they're written on.

New Pour - out Device

WASHABLE BLUE

For home and school. Washes easily from hands and clothing with mild soap and water.

Available in Permanent Blue Black, Carnation Red, Washable Blue, Tropic Green.

Gallons	3.75
Quarts. Each	1.10
Quarts. Per dozen	12.00
Pints. Each	.70
Pints. Per dozen	7.35
2 oz. bottles	.15
2 oz. bottles, Per dozen	1.65

SKRIP INK

The successor to ink. Dries fast, flows easy. No sediment. Can be used in any fountain or writing pen. Permanent blue-black. 2 oz. bottle.

Each .15

INK ERASER

Will instantly remove ink blots from paper, and fruit, tobacco and coffee stains from fabrics. Also remove ink from fingers.

The 2 bottle kind that does the work right.

Each .45 Dozen 4.50

HIGGINS DRAWING INK

The standard in drawing ink for draughtsmen and artists. Flows freely. Dries quickly. For pen or brush work on paper. Black or colors —orange, violet, green, blue, brown, yellow, red, white, violet, carmine red, leaf green and turquoise.

	Each	Dozen
¾ ounce	.30	3.30
½ pint	2.25	25.00
1 pint	4.00	44.00
1 quart	7.20	79.00

SANFORD'S SCHOOL INK

This is a black aniline ink. Especially satisfactory for school purposes. Will not thicken in the ink well. Writes a deep black and dries black.

All packaged in glass bottles. Black and Blue-black are permanent.

No. 30.	Washable Blue. Gallon	2.70
No. 710.	School Black. Gallon	2.70
No. 730.	School Blue-Black. Gallon	2.70
No. 31.	Washable Blue. Quart	.90
No. 711.	School Black. Quart	.90
No. 731.	School Blue-Black. Quart	.90

INKS FOR ORNAMENTAL PENMANSHIP

Gold, Silver and White

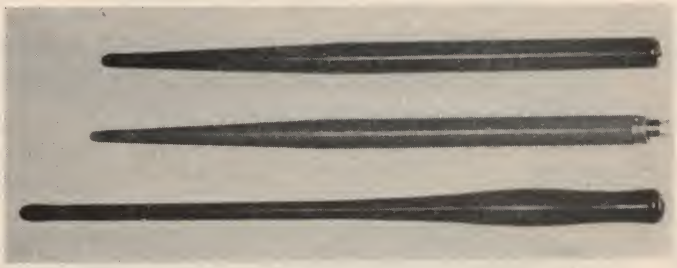
		Each	Dozen
No. 564.	¾ oz. Gold	.25	2.50
No. 565.	¾ oz. Silver	.25	2.50
No. 98.	1 oz. White	.25	2.50

CONCENTRATED INKS

"Sed-ono" Ink Bars, Box 20 Qt.	1.50
Ink Powder, Gal. Unit	.20
Blue—Black—Red, Qt. Unit	.15

All Orders will be Priced at Time of Delivery whether Higher or Lower than Catalog Prices

PENS – PEN POINTS – PENHOLDERS



No. 1

No. 21

No. 15

PRICES

No. 1	Gross 2.56
No. 21	Gross 3.85
No. 15	Gross 4.80

SCHOOL SERVICE PENHOLDERS

School Service Penholders are designed to give satisfactory service for a long period.

Nos. 1 and 15 have glossy black lacquer finish. No. 21 has cherry lacquer finish.

Lengths—No. 1 6½", No. 21 6½", No. 15 7½".

All holders have strong metal pen point holders. Points are gripped firmly yet are easily removed for replacement.

PALMER PENS

No. 1. Large coarse-pointed, for primaries.

No. 2. Very fine and flexible, for ornamental writing.

No. 3. Stiff, medium fine point, for intermediate grades.

No. 4. Coarse-pointed pen, for use in grades three and four.

No. 5. Large coarse-pointed, semi-flexible, for intermediate grades.

No. 6. Light coarse-pointed, for grades four to six.

No. 7. Light - weight, medium - fine, for grades six and seven.

No. 8. Light - weight, fine pointed, for grades six to eight.

No. 9. Light-weight, medium fine, semi-flexible, for general school use.

Palmer method guaranteed steel pens are manufactured especially for handwriting instruction and are the standard pens for school use in America.

Nos. 1, 3, 4, 6, 7, 8 per gross	.80
Nos. 5 and 9 per gross	1.00
No. 2 per gross	1.65
Pen assortment 1378 containing ¼ gross each of pens Nos. 1, 3, 7, and 8	.85

ESTERBROOK RE-NEW POINT FOUNTAIN PEN

Solid Duracrome points. The point can be easily removed for cleaning or replacement. Proved design and performance. An excellent pen for school use.

No. 1550. Firm, extra fine.

No. 2048. Flexible, extra fine.

No. 2788. Flexible, medium.

No. 2668. Firm, medium.

Each	2.00
Duracrome points only. Each	.35

ESTERBROOK SCHOOL PENS

Fine Points

No. 228. FINE point. Flexible action. Used in 7th and 8th grades and commercial departments.

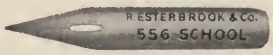
No. 815. FINE point. Flexible action. Excellent for freehand writing. Used in 5th and 6th grades.

No. 733. FINE point. Flexible action. A widely used and popular style. Used in the 7th and 8th grades and commercial departments.

No. 1000. FINE point. Firm action. A fine point for muscular movement writing. Used in 7th and 8th grades and commercial departments.

Per gross 1.65

Medium Points



No. 453. MEDIUM point. Flexible action. A medium point for muscular movement writing. Used in 5th and 6th grades.

No. 556. MEDIUM point. Firm action. Used in all grades and commercial departments. Most popular school pen.

No. 702. MEDIUM point. Firm action. Large pen with large ink capacity. Used in 3rd and 4th grades.

No. 761. MEDIUM point. Firm action. Exceptionally smooth in writing. Used in 5th and 6th grades.

Per gross 1.65

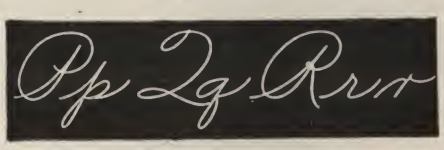
Oval Points

No. 756. FINE OVAL point. Smooth long writing.

No. 757. MEDIUM OVAL point. Good on soft papers.

Per gross 1.80

WALL CHARTS



These may be used around the top of the blackboard or may be separately displayed. Each set consists of 15 strips showing complete alphabet of capitals, small letters and numbers. Available for any system of handwriting, script writing or lettering.

Per set, any style ..... .70

PENCILS

PENCILS FOR GENERAL WORK

PRINCIPAL—Hexagon shape, rounded corners, yellow finish, with eraser, degrees 2 and 3.
No. 221 ..... Dozen .43 Gross 4.72 Ten Gross 45.75

COMMERCE—Round shape, brown grained finish, with eraser, degrees 1, 2, 2⅜, 3 and 4.
No. 395N ..... Dozen .45 Gross 5.00 Ten Gross 46.50

IMPERIAL—Round shape, rosewood finish, with eraser, degree 2 only.
No. 2842 ..... Dozen .50 Gross 5.55 Ten Gross 51.50

HEXAROUND—Hexagon shape, rounded corners, yellow finish, with eraser, degrees are same as No. 395N Commerce.
No. 496 ..... Dozen .50 Gross 5.55 Ten Gross 51.50

MONGOL—Hexagon shape, rounded corners, yellow finish, with eraser, degrees 2, F, 3 and 4.
No. 482 ..... Dozen .67 Gross 7.40 Ten Gross 68.50

TICONDEROGA—Hexagon shape, rounded corners, yellow finish, with eraser, degrees 1, 2, 2½, 3 and 4.
No. 1388 ..... Dozen .67 Gross 7.40 Ten Gross 68.50

DRAWING PENCILS

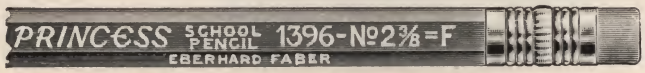
VENUS—Hexagon shape, green finish, no eraser, degrees 2B, 4B, HB, H, 2H, 3H, 4H.
No. 3800 ..... Dozen 1.39 Gross 15.40 Ten Gross 143.00

MONGOL—Hexagon shape, yellow finish, no eraser, degrees B, 2B, HB, F, H, 2, 3H, 4H, 6H.
No. 481 ..... Dozen .67 Gross 7.40 Ten Gross 68.50

TURQUOISE—"Chemi-Sealed," hexagon, blue finish. Degrees: 6B, 5B, 4B, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H, 7H, 8H, 9H.
No. 375 ..... Dozen 1.39 Gross 15.40 Ten Gross 143.00

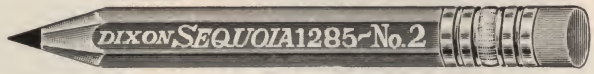
MIRADO—Hexagon shape, round edges, yellow finish, with eraser, degrees 1, 2, 2½, 3 and 4.
No. 174 ..... Dozen .59 Gross 6.45 Ten Gross 60.00

ARCADIA—Hexagon shape, rounded edges, yellow finish, with eraser, degrees 1, 2, 2½, 3 and 4.
No. 167 ..... Dozen .38 Gross 4.25 Ten Gross 39.20



PRINCESS—Hexagon shape, yellow finish, rounded corners with eraser. Degrees 2 and 3.
No. 1396 ..... Dozen .50 Gross 5.55 Ten Gross 51.50

GOLDEN EAGLE—Hexagon shape, rounded edges, yellow finish, with eraser, degrees 2 and 2½.
No. 632 ..... Dozen .50 Gross 5.55 Ten Gross 51.50



SEQUOIA—Hexagon shape, rounded edges, yellow finish with eraser. Degrees 2, 3, 4.
No. 1285 ..... Dozen .50 Gross 5.55 Ten Gross 51.50

MERCANTILE—Round shape, yellow finish, with eraser, degrees 2 and 2½.
No. 324 ..... Dozen .50 Gross 5.55 Ten Gross 51.50

UNTIPPED PENCILS

MANUSCRIPT—Round shape, colored finish, without eraser. Degree 2.
No. 301 ..... Dozen .63 Gross 6.95 Ten Gross 64.50

WRITING—Round shape, green finish, no eraser, degrees 2 and 2½.
No. 325 ..... Dozen .36 Gross 4.00 Ten Gross 37.00

PRACTICE—Round shape, red finish, no eraser, degree 2 only.
No. 283 ..... Dozen .63 Gross 6.95 Ten Gross 64.50

PENCILS

PENCILS FOR ELEMENTARY WORK

ELEMENTARY. Extra large diameter. Green polish.
No. 6370 . . . . . Dozen .67 Gross 7.40 Ten Gross 68.50

JUSTRITE. Medium large diameter. Green polish.
No. 6375 . . . . . Dozen .63 Gross 6.95 Ten Gross 64.50

BEGINNERS. $\frac{13}{32}$" diameter of wood, black finish, for first graders.
No. 308 . . . . . Dozen .67 Gross 7.40 Ten Gross 68.50

LADDIE. $\frac{11}{32}$" diameter of wood. Blue finish, for second and third grades.
No. 304 . . . . . Dozen .63 Gross 6.95 Ten Gross 64.50

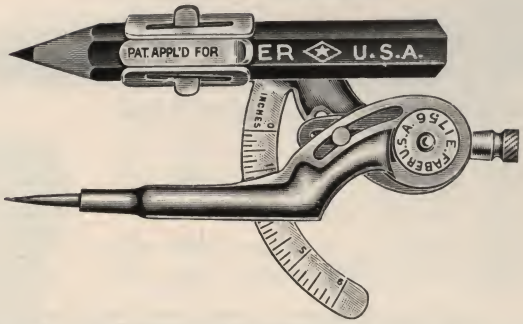
ALPHA is our most popular pencil for first grade use. It has the same thick, soft, "Chemi-Sealed" lead as the 773, but in a round, red finished shaft of slightly smaller diameter.
No. 245 . . . . . Dozen .67 Gross 7.40 Ten Gross 68.50

SPECIAL PURPOSE PENCILS

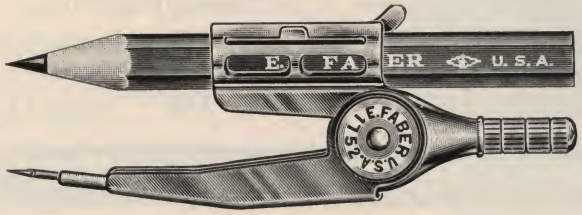
SKETCHING. Oval shape, cedar finish, three degrees of lead for sketching and making broad deep black lines, bundled dozens, ½ gross in box. Degrees 529-2B, 531-4B, 533-6B . . . . . doz. 1.35

CHINA MARKING. In black, black special thin diameter, blue, white, red, yellow, green, brown, vermillion, crimson and yellow.
Box of one dozen . . . . . doz. .70
Carton of ½ gross . . . . . box 4.10

PENCIL COMPASSES



No. 1756. Arc Compass and Protractor with pencil . . . Each .17 Dozen 1.62 Gross 18.50



No. 1752. Compass and Pencil
Each .17 Dozen 1.62 Gross 18.50

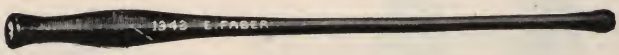
COMPASS PENCILS

Half length pencils, black lead, no erasers, for replacement in pencil compasses.
No. 2576 . . . . . Each .17 Per dozen 2.00 Per gross 22.00

STENOGRAPHERS' PENCILS

Round, natural polish. Thin diameter. Firm lead. Pointed at both ends. ½ dozen pencils and point protector in box.
No. 596 . . . . . Dozen .63 Gross 6.95

PEN HOLDERS



FINE WRITING. Shaped to fit fingers. Assorted colored polishes.
No. 1343 . . . . . Dozen .84 Gross 9.20

No. 1331B. TRIUMPH. Black polish . . Dozen .63 Gross 6.95

No. 1330. SCHOOL. Assorted polishes Dozen .42 Gross 4.65

COLORED PENCILS

CHECKING PENCILS

Round—polished to match color of lead.

No. 635. Blue	doz. .84	gross 9.25
No. 636. Red	doz. .84	gross 9.25
No. 637. Yellow	doz. .84	gross 9.25
No. 638. Green	doz. .84	gross 9.25
No. 640. Red and Blue comb.	doz. .84	gross 9.25

COLORBRITE—Intense colors. Strong, flexible lead.

No. 2126R. Red	doz. 1.00	gross 11.10
No. 2125B. Blue	doz. 1.00	gross 11.10
No. 2128G. Green	doz. 1.00	gross 11.10

HEVI-CHEK—Large diameter lead for extra heavy checking mark.

No. 6535. Blue	doz. .84	gross 9.25
No. 6536. Red	doz. .84	gross 9.25

INDELIBLE PENCILS

MONGOL EXTRA HARD COLORED PENCILS can be sharpened to fine points and hold them without breaking. Ideal for neat checking and fine figures.

No. 765. Blue	doz. 1.00	gross 11.10
No. 766. Red	doz. 1.00	gross 11.10

Hexagon, polished, to match lead, strong, thin, economical leads.

No. 965. Blue	doz. 1.00	gross 11.10
No. 966. Red	doz. 1.00	gross 11.10

745-741. VERITHIN PENCILS. Ideal for check, for writing, for marking blueprints, and for coloring. Is strong enough to take a sharp point, writes neatly, will not smear.

745 or 741	doz. 1.00	gross 11.10

IMPRINTED SCHOOL PENCILS
SCHOOL NAME — SCHOOL COLORS

To personalize and standardize the issuance of or sale of pencils in the school, this high quality pencil is offered. Pencil is hexagon shape with rounded edges and has metal ferrule and rubber eraser. Barrel of pencil completely enameled in solid color with school name in second color. Print clearly school name and colors desired. No orders less than 50 gross. Degrees 2 or 3.

50 to 99 gross . . per gross 4.15 100 gross and over, per gross . . 3.90

DESK PEN SET

An easily refilled set which can be assembled in 20 seconds, this model pen set is also spill-proof and will not overflow from internal air expansion. The set has an upright well. Available in ebony and ivory, grey and ivory and red and ivory.

Set 3.95

INKWELLS

BAKELITE BOSTON INKWELLS

Bakelite is not corroded by ink, and is not easily broken. Has a sliding top to retard evaporation. Glasses have shoulder to prevent slipping through desk. Fits a hole 1¾" in diameter. Thread fits No. 60 glasses.

Complete	Dozen 2.10.	Gross 24.00
Glasses only	Dozen .70.	Gross 7.80
Tops only	Dozen 1.80.	Gross 21.00

COMMON SENSE INKWELL

Common Sense. This consists of a removable bottle with flange and cap. The cap fits tight, allowing practically no evaporation. Easily removed for cleaning. Made in 3 sizes.

No. 1. Small, fits hole in desk, 1½" in diameter.

No. 2. Medium, fits hole in desk 1¾" in diameter.

No. 3. Large, fits hole in desk 1⅞" in diameter.

Complete, per dozen (any style)	.75
Per gross	7.60
Extra caps, per dozen	.32
Per gross	3.20

ERASERS

DOUBLE BEVEL

One end for ink, one end for pencil erasures.
No. 110. 1 doz. in a box.....Dozen .60 Gross 6.00

SOFT INK or TYPEWRITER

No. 6505

2 doz. in a box.
Dozen..... .60
Gross 6.00

"RUBKLEEN'

An extra soft cleaner of special composition. A perfect cleaner for paper, drawing boards, books and fabrics. Size ¾"x1"x2".

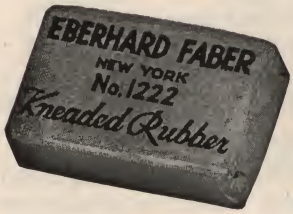
No. 6002. Dozen..... 1.35
Gross 13.50

PINK PEARL

A soft, pink, pliable pencil eraser, oblong shape, double bevel — Size ⅜"x¾"x½".

No. 100. Per doz..... .60
Gross 6.00

KNEADED RUBBER



A plastic that can be kneaded and used over and over again. Removes marks cleanly, leaves surface smooth without leaving film. Excellent for removing and highlighting chalks, charcoal, etc.

No. 1222. Per doz. ..... .80
Gross 8.10

ART GUM

Artgum removes surface dirt from everything, without the use of water or any other liquid, and does not change the color, nor injure the articles.

	Each	Dozen	Gross
No. 100. Size 1"x1"x1".....	.05	.50	5.00
No. 211. Size 2"x1"x1".....	.07	.70	7.00

PENCIL TIP

Chisel shaped, red.

No. 1212 ... Doz. .17 Gross 1.85

PENCIL TIP

Eraser with a number of edges for easier erasing.

No. 1060. Red.....Dozen .17 Gross 1.85

TYPEWRITER ERASER

A medium soft, red, eraser. Excellent for removing marks from paper without damaging the surface or smudging carbon copies —with brush.

No. 6587. Each..... .13
Per dozen 1.25
Per gross 12.60

Same eraser without brush.

No. 6580. Each..... .08
Per dozen ..... .80
Per gross 8.10

SPEED

An eraser developed especially for the classroom. Can be twisted and bent without breaking, erases cleanly and does not crumble. Block shape, pink, 60 in a box.

No. 4000. Per box 2.00
Per dozen 22.20

PENCIL ERASERS

These erasers are unusually handy for fine erasures and for typists who strive for neatness and accuracy. They are easily sharpened in a regular pencil sharpener when their points grow dull. Made of fine quality rubber, model No. 10 can be sharpened at both ends and Model No. 1007 has a brush to whisk away the rubbings after erasing.

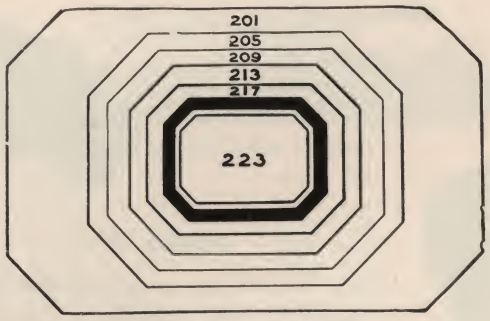
No. 1007

Each .13 Doz. 1.39 Gross 15.40

No. 10

Each .07 Doz. .77 Gross 8.60

OFFICE SUPPLIES



GUMMED LABELS

White face, red border. Easy to write on. Special gumming to give quick adhesion. Sizes: 2½"x1½" down to ⅜"x½".

Per box..... .10 Per dozen boxes..... 1.00

Give approximate size desired when ordering.

PARCEL POST LABELS

White face, blue printing. Per pad of 40 labels—2x3½". Ea. .10

DESK BLOTTING PADS

Heavy weight board, rounded corners, mottled paper top and back. Also flexible pads of excellent quality felt. Both have genuine leather corners in brown, black, green, or maroon.

No. 200. Stiff pads. Each 1.20
No. 220. Flexible pads. Each.... 1.90

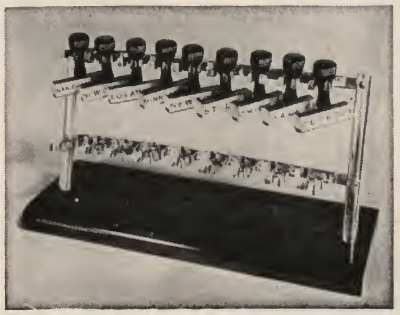
STAMP PAD INK

A stamping ink which spreads smoothly and evenly, soaks into the pad quickly and keeps pads inked for long periods. Does not smear.

Colors: Black, red, violet, blue, green.

No. 580. 2 oz. Glass Bottle... .50 5.00

RUBBER STAMP RACK



Designed for simplicity and utility, the stamp racks are made with a smooth-grain mahogany base and with all steel, chrome plated clips and cross-bars. Rubber feet on bases prevent scratching. Two sizes for either 12 or 18 stamps.

MR12, base 5"x11", 12 stamps 3.00
MR18, base 5"x15", 18 stamps 4.50

STAMP PADS

Colors: Red, blue, violet, black, green.

No. 10. 2½x4" .40
No. 2. 3¼x6¼" .75
No. 3. 4½x7½" 1.50

PUPILS' BLOTTERS

Fine white blotting put up in packages of 100 blotters each, size 4" x 9½". 100 lb. stock.

Package 4 x 9½" ..... .75
Package 3 x 8" ..... .45

PEERLESS BLOTTING

Good grade absorbent blotting 19x24. 100 lb. stock carried in the following colors:

Dark Blue	Canary	Moss Green		
Buff	White	Brown		
		Each	Dozen	100
Size 19x24.....		.07	.80	6.25

EMBOSSED BLOTTING

A high grade blotting with embossed square design. Size 19x24 inches, 100 lb. stock. Available in the following colors:

Light Green	Buff	Old Rose		
Moss Green	Dark Brown	Light Blue		
Cardinal	Purple	Goldenrod		
Dark Blue	White	Gray		
		Each	Dozen	100
Size 19x24.....		.10	.90	7.20

SOLVENE TYPE CLEANER

TYPEWRITER TYPE — RUBBER STAMPS — TYPEWRITER PLATENS

The liquid cleaner does not stain, has a pleasant non-irritating odor and is non-inflammable.

STENO-KIT

Steno-kit includes applicator bottle with brush which eliminates messiness in cleaning type on typewriters.

No. A-1..... per kit 1.95

BULK CLEANER

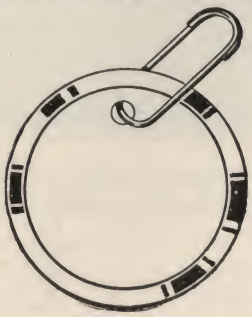
A77. 1½ oz. bottle with bristle brush..... .45
A78. 4 oz. bottle with dauber .55
A79. 10 oz. bottle with dauber 1.10

NOTARIAL SEALS

Made of brilliant gold or bright red glazed paper. Ideal for attachment to diplomas or legal papers. Strongly gummed. 60 red or 40 gold seals per box.

No. 24. Gold $2\frac{3}{16}$ diameter... .60
No. 24. Red $2\frac{3}{16}$ diameter.... .40
No. 22. Gold 1⅞ diameter... .45
No. 22. Red 1⅞ diameter.... .35

KEY TAGS



Metal rim, white stock, oval ring.

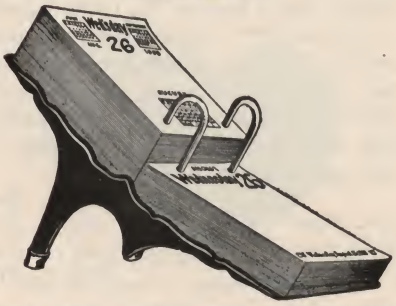
Size 1¼". Box of 6... .15

LIBRARY AND OFFICE SUPPLIES

EVERREADY DESK CALENDAR

No. 55. Complete 2.50
No. 58½. Refill 1.20

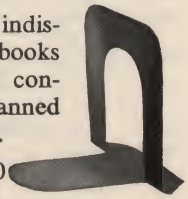
DESK MEMORANDUM CALENDARS



End open upright style with rubber feet. Calendar is past, present and future.
Complete 1.45
Extra pads 50

STEEL BOOK SUPPORT

These supports are indispensible in keeping books upright and in good condition. Made of japanned steel enameled green.



Per pair 30

TRIUMPH EYELET PUNCH AND FASTENER

A tool greatly superior to any other of its kind. Full nickel, 6½" from nose to ends of handles. It is an eyelet fastener and punch combined.

No. 190. Price, each 4.00
No. 2B. Eyelets for Triumph Fastener, 250 in box.
Per box 45
Dozen boxes 4.50

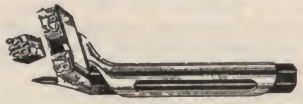
OFFICE OUTFITS

The most modern and complete outfit on the market today — particularly adaptable for all emergency printing jobs which come up so often in every business. Each set contains two holders, a fine stamp pad and an ample supply of characters and special words to make up quickly any wording needed. Deeply molded rubber type, accurate in height and body, assures perfect alignment and clear sharp impressions.

Caps and lower case letters.

Price complete, **Set No. TO-1½** . . 1.50

LIBRARY DATER



Designed especially for use in libraries, this dater is a single line attachment that comes complete with a set of dates (no years) alphabet and two sets of figures.

Style "B" Holder 2.00

LINE DATER

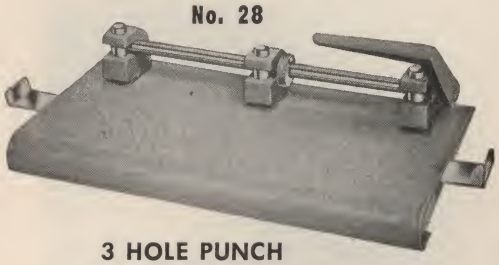
The dater that embraces all the finest construction features. Frames are extra strong, of high grade steel that is sturdy enough to take steady pounding without ever breaking under the strain. Bands are made of selected rubber with deeply moulded type faces of exacting height, thus giving sharp, legible impressions. Easy grip, cutaway handles denote size and stamping position.

JUN 30 1953 JUL 31

No. BDO, Size 0. **No. BD1½,** Size 1½.
Price Each 75

PUNCHES

No. 28



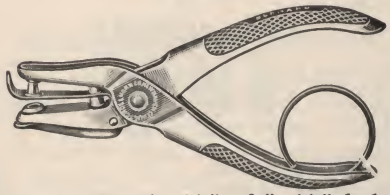
3 HOLE PUNCH

(8½" Center to Center)

All steel with a modern gray crackel finish these punch machines feature punch heads of solid steel providing strength and assuring fixed correct spacing. Exceptional power enables them to punch 25 sheets at one stroke. Three hole machines have an equalizing side gauge, while two hole punches have sliding side gauges and center marks. Concave ground punch pins, which are removable for sharpening, produce sharp punching. All holes have a diameter of ¼ inch.

No. 20. Two hole, 2¾" spacing 4.00
No. 24. Two hole, 4¼" spacing 6.00
No. 28. Three hole, 8¼" spacing 15.00

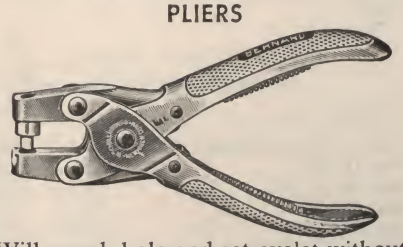
LOOSE LEAF VACUUM PUNCH



Vacuum Punch, ⅛", $\frac{3}{16}$", ¼" holes. Light, strong, nickel plated.

No. 2600. Each 1.30

SOLID HEAD EYELET PLIERS



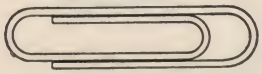
Will punch hole and set eyelet without removing punch from hole. Full nickel. Five inches long.

No. 180. Each 2.70

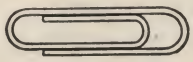
No. 180. Solid Head Eyelets
Per box, 250 45
Dozen boxes 4.50

PAPER CLIPS, FASTENERS AND OFFICE SUPPLIES

GEM PLAIN CLIPS



No. 1

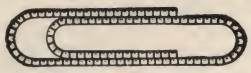


No. 3

100 in Box

Per box ..... .11
Per 1000 ..... .96

GEM NON-SKID CLIPS



No. 1

No. 3

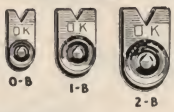
100 in Box

Per box ..... .12
Per 1000 ..... 1.00

IDEAL CLIPS

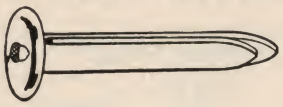
No. 1. Large, 12 in box ..... .25
No. 2. Medium, 50 in box ..... .30

O. K. FASTENER



Size 0B. 100 in box ..... .10
Size 1B. 100 in box ..... .12
Size 2B. 100 in box ..... .15

BRASS PAPER FASTENERS



Round Heads

Flat Heads

Shank	ROUND HEADS	100	1000
No. 1R.	¼"	.26	2.34
No. 2R.	½"	.32	2.88
No. 3R.	¾"	.38	3.42
No. 4R.	1"	.48	4.32
No. 5R.	1¼"	1.20	10.80
No. 6R.	1½"	1.40	12.60

Shank	FLAT HEADS	100	1000
No. 1F.	¼"	.20	1.80
No. 2F.	½"	.24	2.16
No. 3F.	¾"	.30	2.70
No. 4F.	1"	.36	3.24
No. 5F.	1¼"	1.00	9.00
No. 6F.	1½"	1.20	10.80

SOLID HEAD THUMB TACKS

No.2 3/8"

No.3 7/16"

No.4 1/2"

No.5 9/16"

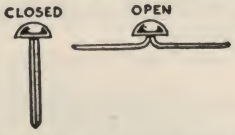
100 in Box

No. 2. 3/8"	Per box .20	per M 1.80
No. 3. 7/16"	Per box .23	per M 2.07
No. 4. ½"	Per box .25	per M 2.25
No. 5. 9/16"	Per box .30	per M 2.70

ONE PIECE THUMB TACK

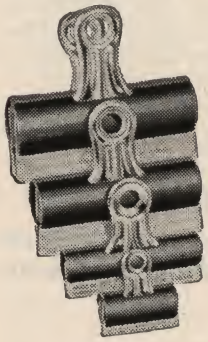
No. 2. 3/8"	Per box .16	per M 1.44
No. 3. 7/16"	Per box .18	per M 1.62
No. 4. ½"	Per box .20	per M 1.80

WIRE SHANK FASTENERS



Brass Fasteners with very small rounded heads and wire shanks. Used for attaching tickets to samples and for fastenings in hammered brass and parchment art work and cardboard novelties. Two sizes as illustrated.

No. 00. Size, ¼" shank. 100 in a box.
Per box .... .35 Per 1000 .... 3.50



BULL DOG CLIPS

No. 1. 1¼" wide.
Dozen ..... .30

No. 2. 2¼" wide.
Dozen ..... .45

No. 3. 2⅝" wide.
Dozen ..... .75

No. 4. 3" wide.
Dozen 1.05

PYRAMID STEEL PINS

300 Pins to Roll

Each ..... .30
Dozen 3.00

BANK PINS

½ Pound Box

No. 20 .... .95
No. 17 .... 1.00
No. 14 .... 1.15

RUBBER BANDS

1 LB.

1oz.

¼ LB.

In the office, school, store or home, countless uses can be found for these strong, sturdy bands. The 100% wholly crude (natural) rubber content assures maximum elasticity and continuous reuse without breaking. All rubber bands are especially treated to prevent oxidation and preserve tensile strength of the band.

	Each	Doz.
1 oz. box	.26	2.60
¼ lb. box	.80	8.00
1 lb. box	3.00	30.00

"COLORBRITE" ASSORTMENT

"COLORBRITE" Assortment of rubber bands in 4 colors; blue, red, green and yellow, each color designating a different size; ¼ lb. of bands in a box on the cover of which are mounted one of each of the four sizes.

No. 700. Assortment. Per box ... .70

MAP TACKS

Available in 18 colors, 100 tacks one color per box. Picture shows actual size of tack.
Per box .. .80 per M .. 7.20

ACCO FASTENERS

Made with continuous base and prongs, these paper fasteners allow for a 3½" capacity. The prongs are four inches long and each fastener has two compressors.

Packed 50 per Box

No. 324.	3" between prongs	2.00
No. 424.	4" between prongs	2.65
No. 524.	5" between prongs	2.90
No. 624.	6" between prongs	3.15
No. 724.	7" between prongs	3.50
No. 784.	8" between prongs	3.50

ADHESIVE TAPES

SCOTCH CELLULOSE TAPE

A transparent tape with a million uses in mending, repairing or sticking up papers. Sticks to anything but leaves no mark. Requires no moistening.

		Each	Doz.
No. 134.	½"x100"	.15	1.62
No. 135.	¾"x150"	.25	2.70
No. 144.	½"x200"	.25	2.70

792 ROLLS—1" CORE

Used in Desk or Pocket Dispenser

		1 Roll	12 Rolls	144 Rolls
No. 175.	½"x792"	.59	.53	.48
No. 176.	¾"x792"	.79	.72	.63

1296" ROLLS—1" CORE

Used in Desk or Pocket Dispenser

	1 Roll	6 Rolls	48 Rolls
½"x1296"	.91	.82	.73
¾"x1296"	1.12	1.01	.90

2592 ROLLS—3" CORE

Used in Heavy Duty Dispenser

	1 Roll	6 Rolls	48 Rolls
½"x2592"	1.51	1.36	1.21
¾"x2592"	1.86	1.68	1.49
1"x2592"	2.32	2.09	1.86

DISPENSERS FOR SCOTCH CELLULOSE TAPE

Heavy Duty. Weight 7 lbs. Each..... 2.50
Desk Type. Weight 4 lbs. Each..... 1.69
Pocket Type. Weight 1¾ oz. Each.... .29

Heavy Duty Dispenser takes 3" core rolls, Desk and Pocket Types take rolls with 1" core.

MYSTIK TAPE

An all-purpose, cloth adhesive tape for sealing, binding, holding and identifying.

Repair torn leather and plastics, mark charts and maps, seal envelopes with MYSTIK Tape.

Colors are: Red, White, Blue, Black, Green, Brown.

	108" Long Each	108" Long Dozen	540" Long Each	540" Long Dozen
⅜" wide	.15	1.65	—	—
¾" wide	.25	2.75	1.00	11.00
1½" wide	.50	5.50	—	—
2" wide	.67	7.37	2.67	29.37
3" wide	1.00	11.00	4.00	44.00
4" wide	1.34	14.74	5.34	58.74

STATE COLOR AND SIZE WHEN ORDERING

GUMMED CLOTH MENDING TAPE

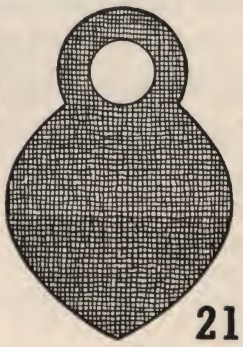
A heavy gummed tape for binding and strengthening books, pamphlets, etc. Also for binding together sheet music. Boxed

		Box	Dozen
No. 3.	White, ¾" x 10 yds.	.55	5.50
No. 4.	Black, ¾" x 10 yds.	.55	5.50
No. 5.	White, 1¼" x 10 yds.	.75	7.50
No. 8.	Black, 1¼" x 10 yds.	.75	7.50
No. 6.	Transparent white cloth to cover printed matter ¾" wide x 10 yds.	.95	9.50
No. 10.	White, 2" x 5 yds....	.75	7.50
No. 15.	Black, 2" x 5 yds....	.75	7.50

SCOTCH DRAFTING TAPE

No. 230. 1"x60 yds. Each..... 1.64

GUMMED POSTER HANGER



Made of strong gray cloth, heavily gummed on one side, with a large hole reinforced by wide-rimmed metal eyelet, these gummed hangers are extremely useful for hanging posters and pictures.

No. 21. Box of 20 .30 Doz. boxes 3.00

CELLULOSE TAPE DISPENSER

This new dispenser applies cellulose tape without the need of handling tape itself. It dispenses, it applies and it cuts the tape. Ideal for neat application of tape in poster hanging, picture mounting, book mending, etc.

Size A for ½" tape..... each 2.45
Size B for ¾" tape..... each 2.75
Uses tape with 1" core.

ADHESIVE TRANSPARENT TAPE

Indispensable in school, library and office in mending books, drawings, music, and papers of every description.

No. 1. ⅝" x 4 yards.
Each .05 Doz. .55

No. 12. 1" by 35 yards.
Each .25 Doz. 2.50

GUMMED REINFORCEMENTS

Heavily gummed patches, made to fit the punched holes in all standard loose-leaf books and used to give extra strength to the paper around these punched holes. $\frac{9}{16}$" diameter, ¼" hole. 100 in box.

Per box .10 Dozen boxes... 1.00

GUMMED WRAPPING TAPE

(BROWN KRAFT)

2"x800" 35-lb. sub..... 1.35
3"x600" 60-lb. sub..... 2.00

PASSE PARTOUT, OR PICTURE BINDING

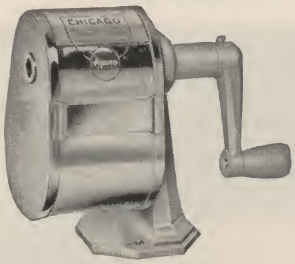
For binding the edges of pictures, shades, baskets, screen, and for binding gift packages.

No. 1 Black	No. 7 Blue
No. 2 White	No. 8 Crimson
No. 3 Grey	No. 9 Gold
No. 4 Green	No. 10 Silver
No. 5 Dark Brown	No. 12 Chinese Red
No. 6 Dark Red	No. 14 Bright Green

Per roll, all except silver-gold..... .25
Per dozen rolls..... 2.50
No. 9 and No. 10—Silver and gold.. .30
Per dozen rolls..... 3.00

PENCIL SHARPENERS

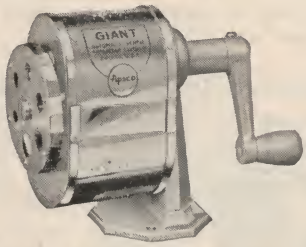
THE CHICAGO



The world-famous pencil sharpener, adapted for standard size pencils. Equipped with two twin-milling cutters, famous for their unexcelled durability. An effective Pencil Stop causes cutters to cease sharpening as soon as the proper point has been produced. May be attached to wall or desk.

Each 1.65

THE GIANT



The new sturdy Disk Reducer permits instant adjustment to all pencil thicknesses and assures straight feeding and perfect points. A pair of razor-edge cutters with a Pencil Stop guarantees fine, economical service and long life. Attachable to wall or desk.

Each 2.05

PENCIL SHARPENER CUTTERS

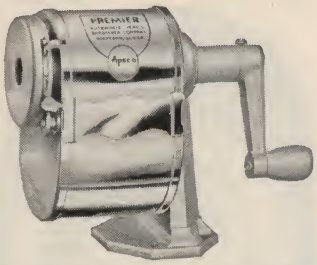
Boston K. S. . . .	1.50
Boston L	1.50
Chicago	1.50
Giant	1.50
Premier	1.50
Wizard	2.00
Dandy	2.00
Dexter	2.00

THE APSCO CLAMP

is made especially for holding any sharpener to flat surfaces and permits moving as necessary.

Each 30
Dozen 3.00

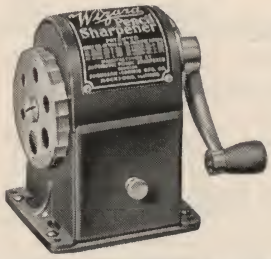
THE PREMIER



A great favorite — this popular low priced Sharpener with Automatic Feed is the outstanding model in its class. Has solid steel pencil stop which positively stops the cutters from further sharpening when point is made. You can not waste pencils with this machine.

Each 3.00

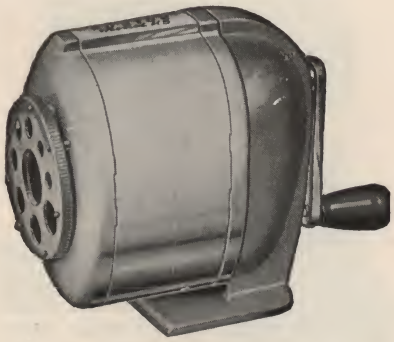
THE WIZARD



Heavy all-steel pencil sharpener is designed to give a life-time of service. It is provided with a steel centering disc that accommodates all pencils and crayons. Double bearings support the center cutter frame insuring smoother operation. The frame has hinged cover and removable steel drawer that catches shavings. Finished in olive green enamel with heavily nickeled and highly polished trimmings.

Each 4.15

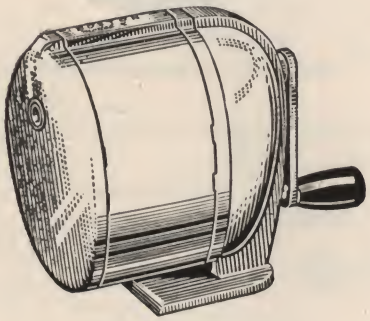
BOSTON MODEL KS



New—streamlined. Adjustable to all regular size pencils. Sharpener automatically stops sharpening when pencil is pointed. Equipped with receptacle for chips.

Price 2.05

BOSTON MODEL L



The famous Model L returns in a new streamlined design. More strength—more metal.

Price each 1.65

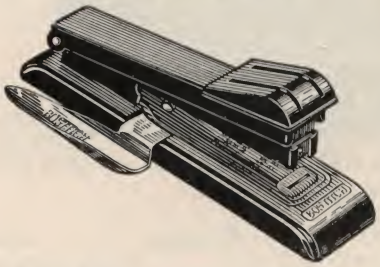
CLIP BOARDS

These will not break, chip, crack or peel, and have a glass-smooth surface for writing. Spring will not come loose.

	Each	Dozen
No. 200. 6½″ x 11″	.50	5.00
No. 203. 6″ x 9″	.50	5.00
No. 204. 9″ x 12½″	.55	5.50
No. 205. 9″ x 15½″	.60	6.00
No. 206. 9″ x 17″	.70	7.00
No. 207. 15″ x 20″	1.40	14.00

STAPLING MACHINES

COMBINATION STAPLER and STAPLE REMOVER



A dependable stapler at a surprisingly low price. Handy to use on the desk, in the hand, or as a tacker.

The staple remover is attached to the side of the machine. Simply slide point of remover under staple and push.

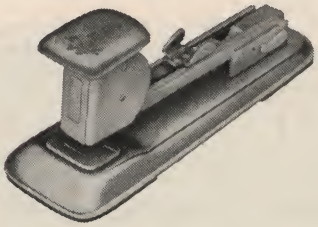
No. B8R 2.85

No. B8 (No Remover) 2.40

Staples

SB8. 10M per box 3.00

HEAVY DUTY STAPLER



This precision built stapler is best suited for heavy duty stapling, tacking or pinning. Staples up to 40 sheets. All steel construction. 3¾" reach. Holds 210 standard staples. Chrome finish.

No. 202 . . . . . 5.50

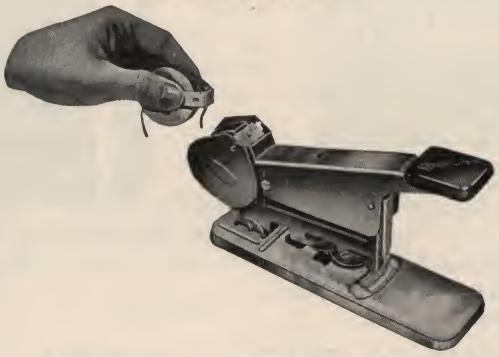
Staples

Standard for No. 202 or No. 105 machine. Per box of 5000 55

No. 511 for No. 11 machine. Per box of 5000 70

No. A44 for No. 11 machine. Per box of 1000 16

BATES MODEL C



Makes its own staples from a continuous roll of brass wire.

Price 7.00

Refills. 5,000 staples 1.30

ROBOT

Loads 100 "RX" $\frac{3}{16}$" staples. Rubber base — Staples and tacks.

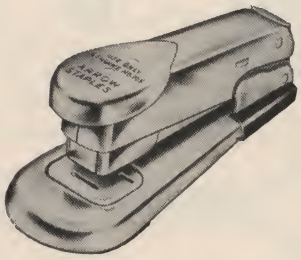
Price 3.00

Staples RX $\frac{3}{16}$"

10M box 2.90

1M box 35

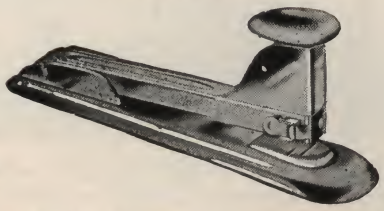
DESK SIZE STAPLER



Same construction as No. 202 except reaches 2¾" and holds 105 ½" x ¼" staples.

No. 105 . . . . . 4.00

STAPLEMASTER



Loads 250 staples. Staples up to 70 sheets. Pins for temporary fastening. Tacks into wood. Uses RF ¼", RFD $\frac{5}{16}$", RFL ⅜" Staples.

No. RF 7.90

Staples

RF. ¼" staples. 5M 1.50

RFD. $\frac{5}{16}$" staples. 5M 2.25

RFL. ⅜" staples. 5M 2.75

HANDI-CLIP

Loads 100 "RX" $\frac{3}{16}$" or "RXD" $\frac{5}{16}$" Staples. Compact, efficient.

Price. Grey wrinkle finish 4.60

Staples

RX. $\frac{3}{16}$". 10M 2.90

RX. $\frac{3}{16}$". 1M 35

RXD. $\frac{5}{16}$". 5M 1.75

ECONOMY STAPLER

Combination stapler, tacker, plier. Fastens 35 sheets. Grey finish, rubber base. Uses No. 511 staples.

No. 11 . . . . . 1.50

CALL BELLS

No. 72. Finely polished, heavily nickel plated wrought steel 2¾" bell, 3⅜" base.

Each 50

No. 82. Same as No. 72, but 2¼" bell. 3" base.

Each 40

No. 111. Same as above, but 4" bell. 4¾" base.

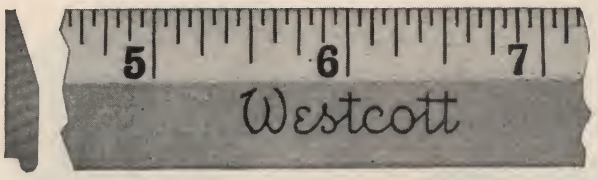
Each 2.50

BRASS HAND BELLS

Made from specially rolled sheet brass. Will not crack. Fine polished, with rubberoid handles.

		Each
No. 4.	3¼"	1.25
No. 6.	4"	2.16
No. 7.	4⅜"	2.64
No. 8.	5"	3.40
No. 10.	6"	5.50

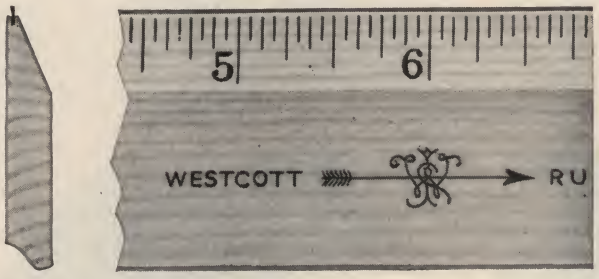
SCHOOL AND OFFICE RULERS



Extra quality selected maple, nicely varnished, all 7/8" wide, 3/16" thick, 12" long and furnished in 5 different divisions of the inch as listed below:

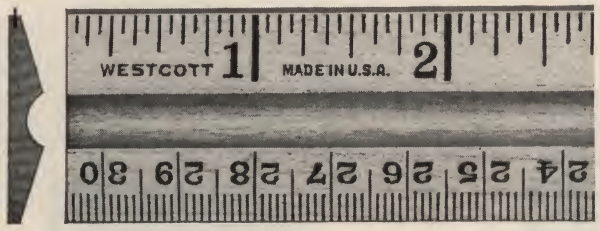
No. 150. Scaled 1/16" on bevel. **No. 154.** Scaled 1/4" on bevel.
No. 158. Scaled 1/8" on bevel. **No. 152.** Scaled 1/2" on bevel.
No. 151. Scaled in 1" on bevel.

Price per dozen ..... .65 Per gross 6.50



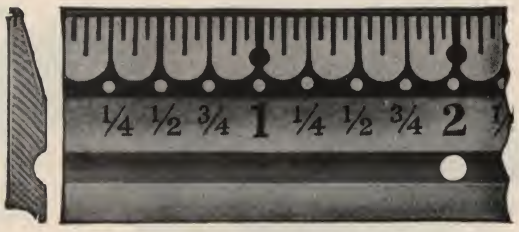
No. 76. Selected maple, finely varnished, boxwood color. Scaled in sixteenths. 1 5/16" wide, 9/32" thick. Made in 12", 15", 18".

12" size, per dozen ..... 1.50 Per gross 15.00
15" size, per dozen ..... 2.45 Per gross 24.50
18" size, per dozen ..... 3.70 Per gross 37.00



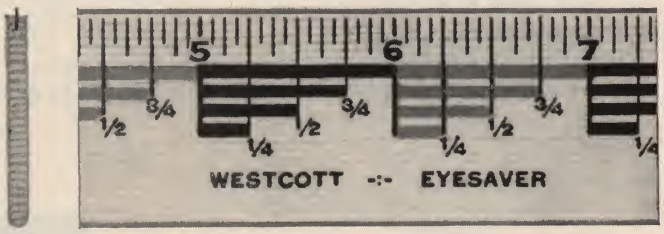
No. 186. 1 1/8" wide, 3/16" thick, 12" long. Single brass edge. Double bevel, sixteenth and millimeter scales with protractor on back, grooved top. Punched to fit 2 and 3 ring notebooks.

Price per dozen ..... 1.10 Per gross 11.00



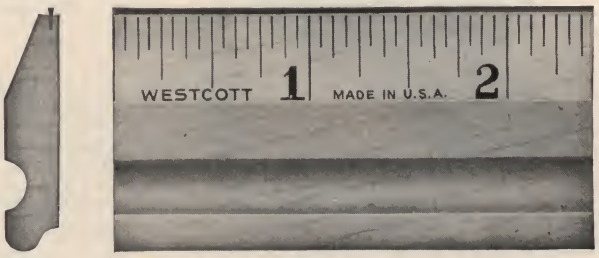
No. 190. 12" white bevel. 1 1/8" wide x 3/16". Red and black scale —easy to read. Grooved for pencils.

Per dozen ..... 1.20 Per gross 12.00



No. 339. 12" Flat—brass edge—1" wide x 1/16". Scaled inches. divided 1/16ths on one side. Red and black scale. Easy reading.

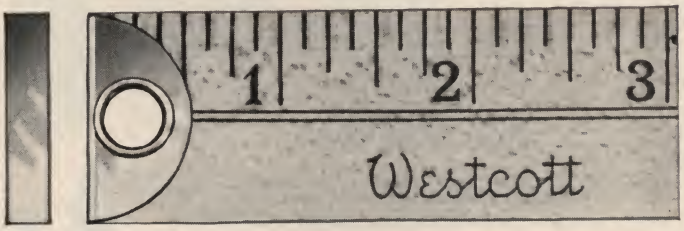
Per dozen ..... .80 Per gross 8.00



No. 1166. 1 1/4" wide, 1/4" thick, 12" long, grooved top. Selected maple, nicely varnished, natural color, single brass edge. Scaled in sixteenths on bevel.

Price per dozen ..... 1.15 Per gross 11.50

YARDSTICKS



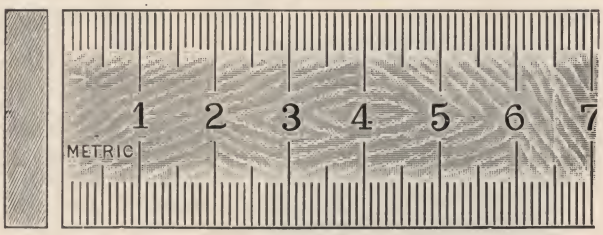
No. 16. One scale on each side running in opposite directions. This yardstick also divided by eighths of a yard.

Price each ..... .42
Price per dozen 4.15

No. 16B. Same as No. 16 with Brass Tips.

Price each ..... .63
Price per dozen 6.25

METER STICKS



One side scaled in centimeters divided into millimeters on both edges. Other side having inch scale divided in eighths. Standard size, 1" wide, 5/16" thick, 100 centimeters long. Boxwood finish.

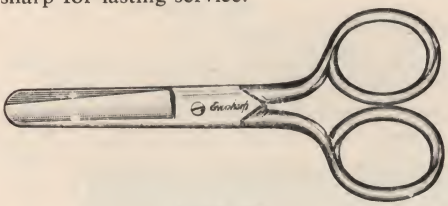
No. 13M. Plain ends.

Price each ..... .45
Price per dozen 4.50

SCISSORS AND CUTTERS

SCHOOL SERVICE SCISSORS HIGHEST QUALITY

Nickel plated, hardened and tempered, finest quality school scissors. Will remain sharp for lasting service.



BLUNT TIPS

No. 41B. 4" .....Dozen 5.30; Gross 58.30
No. 451B. 4½" .....Dozen 6.25; Gross 68.75

SHARP TIPS

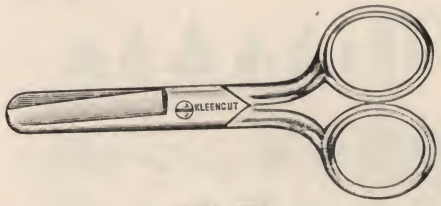
No. 451S. 4½" .....Dozen 4.85; Gross 53.35
No. 51S. 5" .....Dozen 5.35; Gross 58.85

CLIP TIPS

No. 51C. 5" .....Dozen 5.35; Gross 58.85

SCHOOL SERVICE SCISSORS ECONOMY QUALITY

Nickel plated, economically priced steel scissors. Sharpened and finished for good service.



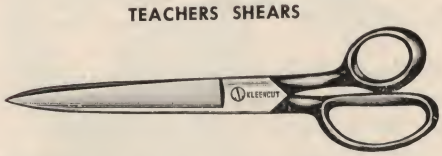
BLUNT TIPS

No. 43B. 4" .....Dozen 1.50; Gross 16.50
No. 453B. 4½" .....Dozen 1.55; Gross 17.05

SHARP TIPS

No. 453S. 4½" .....Dozen 1.55; Gross 17.05
No. 53S. 5" .....Dozen 1.65; Gross 18.15

TEACHERS SHEARS

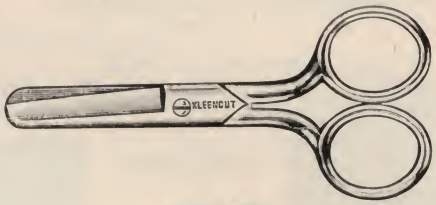


Extra heavy, high grade steel, finished nickel plate fitted with bolt. Very strong and suited to all kinds of work. Enameled handle.

No. 81. 8" .....Each 1.10; Dozen 10.70
No. 101. 10" .....Each 1.50; Dozen 15.20

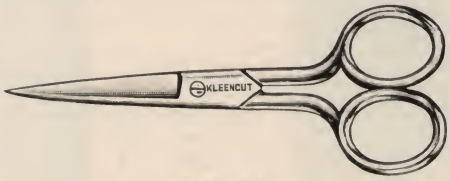
SCHOOL SERVICE SCISSORS MEDIUM QUALITY

Nickel plated, finest quality steel school scissors. Well sharpened and nicely finished. Will give excellent service.



BLUNT TIPS

No. 42B. 4" .....Dozen 2.85; Gross 31.35
No. 452B. 4½" .....Dozen 3.15; Gross 34.65



SHARP TIPS

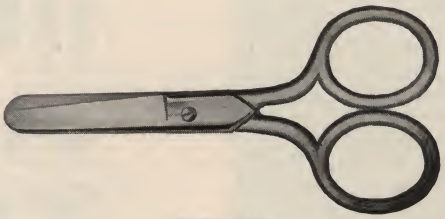
No. 452S. 4½" .....Dozen 3.15; Gross 34.65
No. 52S. 5" .....Dozen 3.50; Gross 38.50

CLIP TIPS

No. 52C. 5" .....Dozen 3.50; Gross 38.50

SCHOOL SERVICE SCISSORS KINDERGARTEN QUALITY

Colored enameled handles with polished blades. A low priced scissor for kindergarten use.



BLUNT TIPS

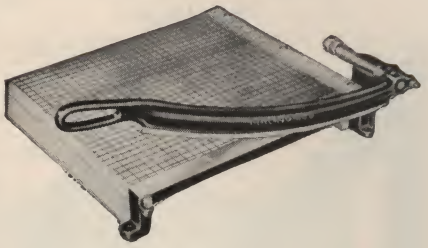
No. 44B. 4" .....Dozen 1.35; Gross 14.85

PINKING SHEARS

These nickel plated pinking shears are 7½" long. Genuine pigskin cases are also available for the shears.

No. 600 ..... 5.25
No. 602. Genuine pigskin sheath 1.15

TRIMMING BOARDS



All Trimming Boards are designed and constructed to give a maximum of efficient service. They are made of the best materials, manufactured by the latest type of machinery operated by skilled hands and are set up and thoroughly tested for accurate, keen cutting before leaving the factory.

Nos. 1, 2 and 3 are designed for card and paper cutting. They will cut fine tissue paper or tough cardboard. They are unsurpassed for keen accurate cutting.

No. 1. 6x6" wt. 4 lbs. 4.50

No. 2. 8x8" wt. 5 lbs. 5.50

No. 3. 10x10" wt. 6 lbs. 7.25
With guard rail 7.75

No. 4. 12x12" wt. 8 lbs. 9.35
With guard rail 9.85

No. 5. 15x15" wt. 30 lbs. 17.50
With guard rail 18.10

No. 5½. 18x18" wt. 40 lbs. 24.00
With guard rail 24.60

No. 6. 24x24" wt. 65 lbs. 37.50
With guard rail 37.75

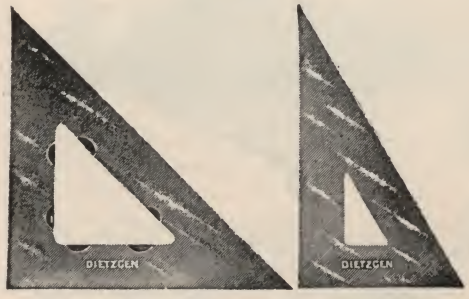
TABLE CUTTER

The No. 7 cutter is equipped with detachable legs, a storage shelf and a drop shelf to catch the trim. It has the same sturdy construction as the 5, 5½ and 6. It is built for heavy dutyy cutting of large sheets.

No. 7. 30x30" wt. 120 lbs.
Equipped with guard rail 58.50

DRAWING SUPPLIES

TRANSPARENT CELLULOID TRIANGLES



No. 12015 No. 12014

These transparent triangles are made of carefully seasoned material that is especially adapted for drawing equipment of this nature.

No. 12015—45° Plain, .060" thick		No. 12014—30x60° Plain, .060" thick	
6". Each	.40	6". Each	.35
8". Each	.60	8". Each	.40
10". Each	.85	10". Each	.60
12". Each	1.25	12". Each	.85

PENCIL POINTER

12 sheets of sand paper firmly glued to a wooden handle, size 1¼"x4".

No. 13220. Per dozen 1.90

DRAWING BOARDS

No. 4412

Made of basswood ¾" thick.

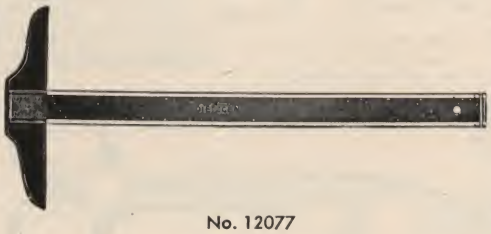
	16x21"	18x24"	20x26"
Each	2.10	2.85	3.65

T-SQUARES

No. 12060

Maple blade and head; fixed head.

	18"	21"	24"	30"
Each	.50	.65	.70	.80



No. 12077

Maple, transparent celluloid lined blade and ebonized, fixed head.

	18"	24"	30"	36"
Each	2.60	3.25	3.90	4.80

TRIANGULAR BOXWOOD SCALES

No. 31626

Open divided: $\frac{3}{32}$, $\frac{3}{16}$, ⅛, ¼, ⅜, ½, ¾, 1, 1½, 4 inches to the foot, $\frac{1}{16}$ inch.

Each ..... .70
Dozen 7.00

TRANSPARENT CELLULOID CURVES

No. 12152

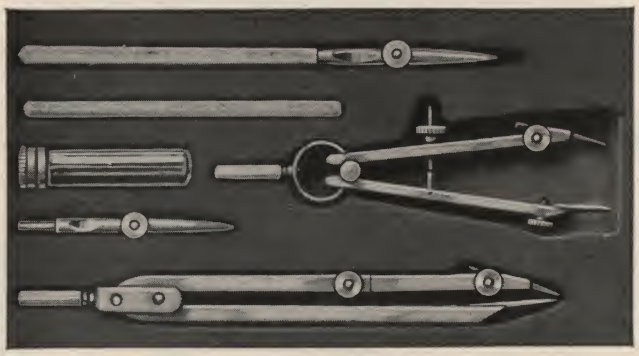
	No. 6	No. 8	No. 13	No. 15	No.16
Each	.55	.60	.80	.85	.85

PROTRACTORS

No. 1935G. Semi-circular, enameled metal, 4", div. to 1°.

Each ..... .14
Dozen 1.40

SCHOLASTIC DRAWING SETS



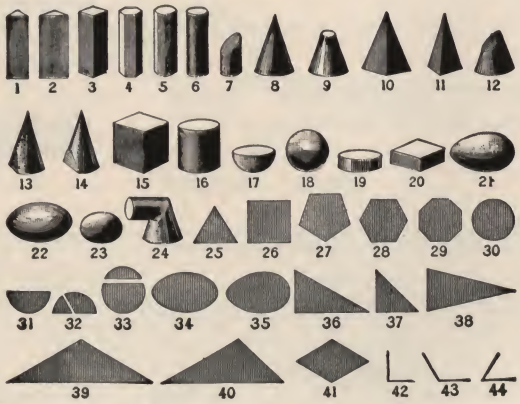
Set No. 603. Contains Compass 5½" with pen and pencil parts, Bow pencil 3¾" side wheel adjustment with reversible point, Ruling pen 4¾", Extra Handle for ruling pen, Lead capsule with leads complete in two flap velvet lined pocket case 6.00

Set No. 602. Contains same as Set 603 plus Divider 5¼", and Bow pen 3¾" side wheel adjustment with reversible point 9.00

Set No. 601. Contains same as Set 602 plus Bow divider 3¾" side wheel adjustment with reversible point 10.00

PROFESSIONAL DRAWING SETS ALSO AVAILABLE

GEOMETRICAL SURFACES AND SOLIDS



This set of forms embraces the common surfaces and solids which are found in elementary geometry, together with a simple illustration of angles. As shown in the above cut, there are twenty-three solids, seventeen surfaces and three angles, the latter being represented by bent wires. The solids are accurately and neatly made from well-seasoned hard wood and the surfaces from a very hard light-colored board, accurately cut with steel dies.

Per set 7.50

TEACHERS' AIDS AND SUPPLIES

FOR FASTER, EASIER CALCULATIONS

THE NEW REED-O-GRAM AND REED-O-GRAPH

A Teacher's Calculator

Based on Averaging Marks When Class Works Equals ⅔ and Test Work Equals ⅓

The Reed-O-Gram is a simple, inexpensive, easy-to-operate calculator, made of heavy cardboard—two discs rotating one upon the other. By moving the inner disc until the class average mark is directly above the test mark on the outer scale, the ⅔-⅓ average automatically appears on the face of the discs.

Let the Reed-O-Gram do your averaging for you. Every teacher needs one.

Each 35

One dozen 3.50

An Improved Instrument for Calculating Pupil Averages

The new Reed-O-Graph has many improvements. It's faster, more accurate, easier to operate and it's made with plastic.

This new instrument divides as it adds. It does this with the usual slide rule precision which makes its use invaluable.

It will average from 4 to 20 marks with amazing speed. Additions and divisions are no longer necessary. Read the average directly from the graph.

Simply place your pencil point in the hole beneath the mark to be averaged and rotate the white plastic disk. As easy to operate as a dial telephone. Any person may become proficient in its use in a couple of minutes.

Price each 3.50

SCHOOL MICROSCOPES

Model S

MODERATELY PRICED

TESTA MICROSCOPE

FOR STUDENTS, HOBBYISTS, SCHOOLS

Made of quality materials with the finest tested optical precision, the Testa Microscope has every feature which the student and hobbyist of microscopy needs.

A choice of low power or high power objective lens permits four powers of magnification from 65x to 200x. Exacting focusing adjustments. Tilting stand. Adjustable concave mirror. Precision ground and polished lenses. Full range swiveling. Sturdy stand. Fine workmanship. Precise in its functioning in every field of microscopy. It fits within the limited budget. Wt. 7 lbs.

Model S-2 . . . . . **33.50**

HIGH QUALITY

MODEL "G" MICROSCOPE

FOR LABORATORIES AND SCHOOLS

Model G

The Testa Microscope Model "G" offers the following outstanding features of special interest to buyers for school laboratories:

1. Exacting coarse and fine focusing motion. 2. Draw tube for increase of magnification. 3. Tilting stand for convenience of observation. 4. Concave three-motion mirror which can be adjusted in any direction to bring concentrated light into the microscopical field of view. 5. Large and heavy stage, scratch resistant and acidproof. 6. Removable spring clips to hold slides firmly in place. 7. Rotating diaphragm turret with six differently sized apertures, including aperture yielding "darkfield illumination." Heavily chrome plated metal parts. Wt. 8 lbs.

Model G-1—75x to 150x **47.75**
Model G-2—75x to 300x **53.50**
Model G-3—75x to 400x **59.00**

CRAYONS

CRAYOLA NO. 8. Eight crayons 3⅝" x $\frac{5}{16}$" paper wrapped in tuck box. Colors: Red, Orange, Yellow, Green, Blue, Violet, Brown, Black.

Per box ..... .10
Per doz. ..... .99
Per gross 10.80

CRAYOLA NO. 12. Twelve crayons 3⅝" x $\frac{5}{16}$" paper wrapped in tuck box. Colors: Red, Red Orange, Orange, Yellow, Yellow Green, Green, Blue, Blue Violet, Violet, Burnt Sienna, Brown, Black.

Per box ..... .15
Per doz. 1.50
Per gross 16.20

CRAYOLA NO. 16. Sixteen crayons 3⅝" x $\frac{5}{16}$" paper wrapped in tuck box. Colors: Red, Red Orange, Orange, Yellow Orange, Yellow, Yellow Green, Green, Blue Green, Blue, Blue Violet, Violet, Red Violet, Rose Pink, Brown, Black, White.

Per box ..... .20
Per doz. 2.01
Per gross 21.60

CRAYOLA NO. 24. Twenty-four crayons 3⅝" x $\frac{5}{16}$" paper wrapped, in an attractively designed hinged-top cardboard box. Colors: Red, Red Orange, Orange, Yellow Orange, Yellow, Yellow Green, Green, Blue Green, Blue, Blue Violet, Violet, Red Violet, Brown, Black, White, Gray, Gold Ochre, Rose Pink, Turquoise Blue, Prussian Blue, Middle Blue Green, Burnt Sienna, Flesh and Dark Green. Stenciling instructions on the box.

Per box ..... .35
Per doz. 3.51
Per gross 37.80

No. 241. CRAYOLA. Twenty-four crayons same as No. 24 in a flat lift-lid box.

Each .35 Dozen 3.51 Gross 37.80

BESCO ANTI-ROLL

Large Size Pressed Crayon

No. 10B. BESCO ANTI-ROLL. Eight pressed crayons made in Anti-Roll form. As the form indicates, the flat side prevents crayon from rolling off the desk.

Each .35 Dozen 3.51 Gross 37.80

REFILLS for 10B may be purchased. Packed 36 sticks in a box. Minimum order, 1 dozen per color.

Dozen ..... .51 Gross 5.01

CRAYOLA IN BULK

To keep boxes replenished with complete color assortments refills can be purchased in bulk. Standard packing for the 3⅝" x $\frac{5}{16}$" size is 3 dozen sticks, solid color in box. Minimum order, 1 dozen per color.

Dozen ..... .15 Gross 1.68

Standard packing for 4"x$\frac{7}{16}$" size is 36 sticks in box. Minimum order, 1 dozen per color.

Dozen ..... .51 Gross 5.01

PERMA PRESSED CRAYON

PERMA Pressed Crayon is as well adapted for broad work as for fine detail. Its clean, firm lines and masses give perfect results that never rub. PERMA Crayons are 3½" x $\frac{5}{16}$" paper wrapped.

No. 93. PERMA. Eight pressed crayons in tuck box. Colors: red, orange, yellow, green, blue, violet, brown and black.

Box .20 Dozen 2.01 Gross 21.60

No. 85. PERMA. Sixteen pressed crayons in lift-lid box. Colors: red, red orange, orange, yellow orange, yellow, yellow green, green, blue green, blue, blue violet, violet, red violet, brown, black, white, gray.

Box .45 Dozen 4.50 Gross 48.60

PERMA IN BULK

Colors: red, red orange, orange, yellow orange, yellow, yellow green, green, blue green, blue, blue violet, violet, red violet, black, white, brown and gray. Minimum order, 1 dozen per color.

Dozen ..... .30 Gross 3.00

CRAYOLA—4" x $\frac{7}{16}$"

No. 38. CRAYOLA. Eight over-size crayons paper wrapped in lift-lid box. Colors: red, orange, yellow, green, blue, violet, brown and black.

Each .35 Dozen 3.51 Gross 37.80

No. 336A. CRAYOLA. Sixteen over-size crayons, unwrapped, in a lift-lid box. Colors: red, red orange, orange, yellow orange, yellow, yellow green, green, blue green, blue, blue violet, violet, red violet, brown, black, white and gray.

Each .65 Dozen 6.51 Gross 70.20

CRAYONS

No. 3 CRAYONEX

8 Crayons. Tuck box. Standard colors and Black and Brown. Most popular box for lower grades.

Box . . .10 Dozen . . .99 Gross . . 10.80

CRAYONEX No. 321

12 Crayons. Tuck box. 8 standard colors and Yellow-green, Red-orange, Blue-green, Red-violet.

Box . . .15 Dozen . . 1.50 Gross . . 16.20

CRAYONEX No. 4

16 Crayons. Tuck box. Especially adapted for upper grades, high and normal schools. 16 assorted colors: Red, Red-violet, Blue-violet, Violet, Blue, Blue-green, Green, Yellow-green, Yellow, Yellow-orange, Orange, Red-orange, Light Red, Black, Brown, and White.

Box . . .20 Dozen 2.01 Gross . . 21.60

CRAYONEX No. 323

24 Crayons. A flat, lift-lid box containing 24 colors. The crayons lie flat so that the complete range of colors is at all times visible and selection of colors easily made. Colors as in No. 4 and Magenta, Turquoise, Light Yellow, Light Blue, Dark Red, Dark Blue, Dark Yellow-orange, Gray.

Box . . .35 Dozen . . 3.51 Gross . . 37.80

CRAYONEX No. 326

32 Crayons. A flat, lift-lid box containing 32 assorted colors.

Box . . .60 Dozen . . 6.00 Gross . . 64.80

KINDOGRAPH

A Semi-Pressed Crayon

Smooth writing quality, clear true colors, a quality crayon for both elementary and advanced work. 4"x$\frac{7}{16}$".

No. 934. Kindograph. 8 colors.

Box . . .35 Dozen . . 3.51 Gross . . 37.80

KANTROLL CRAYONS

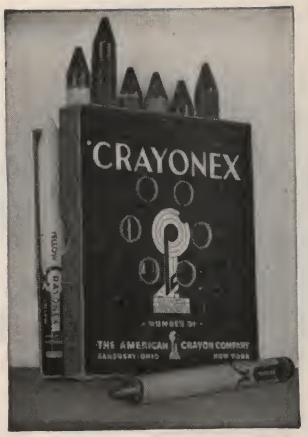
A Prang-Kindograph quality crayon in a new style of stick—semi-round with one flat side. They can't roll off desks or drawing boards. Kantroll Crayons come in two sizes, the standard size or Junior Kantroll, and the large size especially adaptable to Kindergarten work or advanced work where a free, bold technique is desired.

No. 937. Kantroll, 8 colors, large sticks.

Box . . .35 Dozen 3.51 Gross . . 37.80

No. 936. Kantroll, 16 colors, large sticks.

Box . . .70 Dozen 7.02 Gross . . 75.60



CRAYONEX No. 51

8 Crayons. Lift-lid box containing standard colors and Black and Brown. Large sticks ideal for Kindergarten use. The large size, 4¼"x$\frac{7}{16}$", makes them stronger and easier for the small child to hold.

Box . . .35 Dozen . . 3.51 Gross . . 37.80

CRAYONEX No. 251

16 Crayons. Same size crayons as in No. 51 but larger box. Same colors as in Crayonex No. 4.

Box . . .65 Dozen . . 6.51 Gross . . 70.20

CRAYOGRAPH—A Pressed Crayon

Crayograph drawings have that beautiful "matt" texture—no gloss whatever, yet require no fixative. Two or even four colors may be blended together without "piling up" or peeling. Especially recommended for map work. Keeps a point well, erases easily, does not smudge.

No. 19. Crayograph. 8 colors, tuck box.

Box . . .15 Dozen . . 1.50 Gross . . 16.20

CRAYONEX IN BULK

No. 3 size, packed 3 dozen in cardboard box. Minimum order, 1 dozen per color.

Dozen . . . . .18 Gross 1.80

No. 51 size, packed 1 dozen in cardboard box. Minimum order, 1 dozen per color.

Dozen . . . . .55 Gross 5.50

ART MATERIALS

PAYONS

Payons are an entirely new painting medium, an improved pressed crayon to which properties peculiar to them alone have been added. Payons are excellent drawing crayons yet they are completely and easily soluble in water. A new technique—crayon drawings changed instantly into brilliant water color pictures—is now possible with Payons. For use on paper, for fabric work or for new effects in craft work.

No. 341. Eight payons, standard colors, packed in a strong lift-cover box. A special insert holds each crayon in a separate compartment yet allows room in the box for easy removal of each stick of color.
Box .40 Dozen 4.20 Gross 46.08

No. 343. Metal box with mixing trays and brush. Twelve colors.
Box 1.25 Dozen 13.10 Gross 144.00

PAYONS IN BULK
Dozen .72 Gross 7.20

POSTER PASTELLO

A pastel texture combined with a postery flair—strength of stick and long lasting, rich color brilliance and perfect blending, that's Poster Pastello. A colored dustless chalk crayon ideal for student murals, so popular in today's classroom. It is clean to handle.

No. 1054. 6 standard colors. Brown, Black.
Box .40 Dozen 4.32 Gross 43.20

No. 1055. 12 standard colors with Black instead of Blue-violet.
Box .60 Dozen 5.40 Gross 57.60

No. 1056. 24 Colors. Same as in 1055 and in addition: Blue-violet, Turquoise, Dark Blue, Magenta, Brown, Dark Green, Buff, Dark Red-orange, Light Flesh, Dull Flesh, Light Blue, White.
Box 1.00 Dozen 9.60 Gross 108.00

PASTELLO

Prang Pastello Crayons are of pastel quality but are made somewhat sturdier than the French pastels to increase their practicability for school and general use.

Pastello has a rich refinement of texture and is especially delightful for quick impressions and swift sketching. It is easily erased and light colors may be applied over dark. Suitable for High School and advanced classes as well as professional use.

No. 1044. Pastello. 24 sticks, flat hinged box.
Box .75 Dozen 7.89 Gross 86.40

COLORED CHALK

Large sticks 4" long by 1" in diameter of soft chalk crayon unexcelled for kindergarten and primary free expression work.

An enamel coating gives the crayons even greater strength and makes them clean to handle.

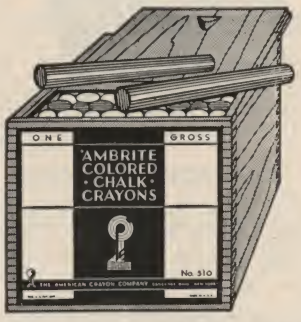
6 standard colors and white, brown, black, yellow-orange, red-orange, red-violet, blue-violet, blue-green, yellow-green.

No. 1535. Nine sticks, wood box, bright colors. Per box 1.30

No. 1534. 36 sticks, assorted 4 each. 6 standards and black, white, brown (vivid colors) 3.50

No. 1256. 72 sticks, solid or assorted (soft colors). Per box 3.50

AMBRITE—A SOFT CHALK



Ambrite is a superior quality colored chalk especially designed for school and other uses where intense brilliant color is desired. It is available in 23 different colors and black and white. Ambrite is unexcelled for color work on paper.

COLORS: Red, orange, yellow, green, blue, violet, yellow-orange, yellow-green, blue-green, blue-violet, red-violet, red-orange, brown, black, magenta, turquoise blue, dark blue, dark green, dark red, light blue, scarlet, gray.

No. 510. 144 sticks assorted, 22 colors 3.85

No. 510. 144 sticks, solid colors 4.40

No. 530. Ambrite, 12 sticks standard colors ... .45

EXCELLO SQUARES

Excello is applied directly to the paper with definite strokes—its application leaves no excess color. It blends completely, and the broad flat sticks allow for sweeping strokes. For interesting variations it may also be applied with a powder puff or felt stamp. Noted for its rich, deep colors, it may be used on paper or blackboard. Used widely for chalk talks.

Sticks 3" x ½" x ½".

No. 910. 6 standard colors and Brown and Black. Each stick encased in protective sleeve for cleanliness, strength and usability to the end.
Box .80 Dozen 8.40 Gross 86.40

No. 911. 12 standard colors.
Box 1.10 Dozen 11.52 Gross 119.52

No. 912. 24 assorted colors in hinge wood box.
Box 2.00 Dozen 21.00 Gross 216.00

SKETCHO

Sketcho is a crayon with an oil base. Colors may be blended with the fingers, or with a brush dipped in turpentine. Colors can be used one over another. Sketcho comes in a large stick 2½" x ½". Each Sketcho stick has an individual holder.

No. 1166. Sketcho. Flat box with 12 sticks assorted colors.
Box .75 Dozen 7.89 Gross 86.40
Sketcho in bulk Doz. .90 Gross 9.00

All Orders will be Priced at Time of Delivery whether Higher or Lower than Catalog Prices

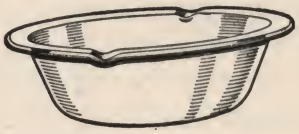
ART MATERIALS

PALETTES

Metal Mixing Palette. Black enameled with white enamel mixing side. Round rim, no sharp edges. 3¼"x7¼".

No. 851. Dozen . . 1.80 Gross . . . 18.00

WATER COLOR PANS



Double lipped pans, 3⅝" in diameter.

Gold Lacquered. Per doz. 78
Per 100 . . . . . 5.85

Green Enameled. Per doz. 84
Per 100 . . . . . 6.30

PRANG CHARCOAL PENCIL

A fine quality charcoal stick, with GB paper wrap for strength and ease of sharpening. Made to supply the constant demand for charcoal in a more convenient form. Easily sharpened and keeps a point well.

No. 600. Prang Charcoal Pencil. Hard.
Each . . . . . .20 Dozen 2.00

No. 601. Prang Charcoal Pencil. Medium.
Each . . . . . .20 Dozen 2.00

No. 602. Prang Charcoal Pencil. Soft.
Each . . . . . .20 Dozen 2.00

No. 95. Charcoal. Ordinary. 50 sticks in box. Per box 75

Charcoal Stumps. Tortillion.
Per dozen 25

COLORED ART PENCILS

No. 743

These pencils can be used for coloring photographs (preferably unglazed paper), sketches, drawings or for obtaining wash color effects on mechanical drawings. One shades in the desired colors with the pencil and then "washes" them over with an ordinary artist's paint brush, dipped in water. "Blends" may be obtained in the same way as with water colors.

No. 741

COLOR GROUP No. 1

803	Burnt Carmine	853	Brown Ochre
813	Terra Cotta	855	Prussian Blue
817	Lemon Yellow	858	Prussian Green
819	Grey	888	Olive Green
841	White	893	Vandyke Brown
846	Pink	898	French Green

COLOR GROUP No. 2

844	Purple	864	Heliotrope
845	Light Blue	865	Dark Blue
848	Light Green	866	Red
849	Black	867	Yellow
862	Orange	868	Dark Green
863	Brown	876	Carmine

Set No. 741. Easel type box. Contains twelve pencils, one each of color group No. 2.
Per set . . . . . 1.10 Per dozen sets 12.30

Set No. 743. Easel type box. Contains 24 pencils, one each of color groups No. 1 and 2.
Per set . . . . . 2.20 Per dozen sets 24.60

Pencils in bulk. One color, per dozen . . 1.00 12 dozen, 12 colors . . 11.10

COLORED ART PENCILS

796. VERITHIN 12-COLOR ART SET contains one piece each: carmine red, scarlet red, orange, canary yellow, green, indigo blue, violet, sienna brown, black, white, silver, and gold. It is packed six sets to a carton. Per set . . . . . 1.10 Doz. sets 12.30

731. VERITHIN 24-COLOR ART SET contains one piece each: carmine red, scarlet red, orange, canary yellow, lemon yellow, olive green, light green, grass green, dark green, ultramarine, sky blue, indigo blue, violet, lavender, rose, pink, tuscan red, terra cotta, sienna brown, black, grey, white, silver, and gold. Each set is packed in an individual carton. Per set . . . . 2.20 Dozen sets 24.60

COLORED ART PENCILS

PRISMACOLOR

COLOR GROUP I

901 Indigo Blue
903 True Blue
909 Grass Green
910 Emerald Green
915 Lemon Yellow
918 Orange
921 Vermillion Red
924 Crimson Red
931 Purple
946 Dark Brown
935 Black
938 White

COLOR GROUP II

902 Ultramarine
907 Aquamarine
912 Apple Green
916 Canary Yellow
922 Scarlet Red
932 Violet
937 Light Grey
939 Flesh
942 Yellow Ochre
943 Burnt Ochre
944 Terra-Cotta
945 Sienna Brown

COLOR GROUP III

904 Light Blue
908 Dark Green
911 Olive Green
917 Yellow Orange
923 Scarlet Lake
925 Crimson Lake
926 Crimson Red
929 Pink
930 Magenta
936 Dark Grey
947 Silver
948 Gold

Set No. 952—Contains 12 pencils, 1 of each in Color Group I . . . . . Set 1.53 Dozen sets 16.90

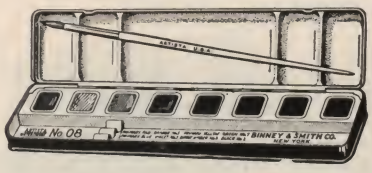
Set No. 953—Contains 24 pencils, 1 of each in Color Groups I and II . . . . . Set 3.06 Dozen sets 34.00

Set No. 954—Contains 36 pencils, 1 of each in Color Groups I, II and III . . . Set 4.60 Dozen sets 51.00

Bulk pencils per dozen of one color 1.39

Per gross of up to 12 colors 15.40

ARTISTA WATER COLORS



No. 08

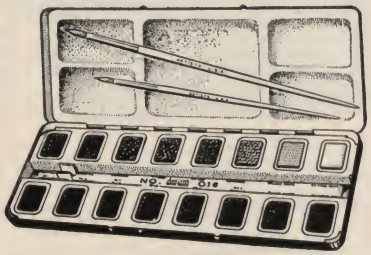
No. 08 ARTISTA. Eight half pans of semi-moist paint; No. 7 Camel hair brush. Colors: Primary Red, Orange, No. 5, Primary Yellow, Green No. 7, Primary Blue, Violet No. 5, Burnt Umber No. 3, Black No. 2.

Per box, with brush ..... .65
Dozen 6.50

No. 09. The vibrant eight color assortment that produces a perfect twelve color wheel. A far wider range and much greater brilliancy of color and tone are made possible by the use of this unusual assortment. Eight half pans, semi-moist colors: Primary Red, Primary Yellow, Primary Blue, Magenta No. 1, Peacock Blue, Burnt Umber No. 3, Titanium White and Black No. 2. One No. 7 Brush.

Per box, with brush ..... .65
Dozen 6.50

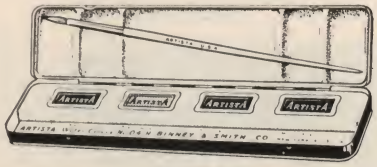
These true balanced colors are famous for their qualities of strength and brilliance as well as transparency and excellent mixing properties. The colors have a smooth flow and will not penetrate the paper, nor will they become soft or sticky in damp weather.



No. 016

No. 016. Sixteen half pans semi-moist colors: Primary Red, Vermillion No. 2, Orange No. 5, Yellow Orange No. 2, Primary Yellow, Yellow Green No. 2, Green No. 7, Blue Green No. 2, Primary Blue, Blue Violet No. 2, Violet No. 5, Magenta No. 2, Titanium White, Black No. 2, Burnt Umber No. 3, Peacock Blue. Two brushes Nos. 4 and 7.

Per box, with brushes 1.30
Dozen 13.00



No. 04 H

No. 04H. Four dry cakes. Colors: Primary Red, Primary Yellow, Primary Blue, and Charcoal Gray. With one No. 7 brush.
Per box, with brush ..... .50
Dozen 5.00

No. 04W. ARTISTA. Four whole pans of semi-moist paint; No. 7 Camel hair brush. Colors: Primary Red, Primary Yellow, Primary Blue, Black No. 2.
Per box, with brush ..... .60
Dozen 6.00

No. 04A. Same as No. 04W with ¾ size pans.
Per box, with brush ..... .55
Dozen 5.50

ARTISTA REFILLS

REFILLS. Extra pans can be procured for refilling any of the ARTISTA boxes.

SEMI-MOIST HALF PANS, 12 on a strip, made in 26 colors.
Per doz. ..... .55 Gross 5.50

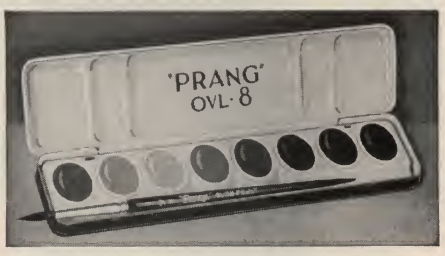
SEMI-MOIST THREE QUARTER PANS, 12 on a strip, made in 5 colors.
Per doz. ..... .66 Gross 6.60

SEMI-MOIST WHOLE PANS, 4 on a strip, made in 20 colors.
Per doz. ..... .84 Gross 8.40

DRY CAKES, 12 in a box, made in 5 colors.
Per doz. ..... .48 Gross 4.80

PRANG WATER COLORS

Unsurpassed in excellence for 75 years. Famous for brilliance, smoothness, and transparency, clear and accurate blending. Their superior mixing qualities make Prang Water Colors the ideal medium for the study of color harmony. Supplied in boxes of assorted colors of half pans (oval and square), three-quarter pans, whole pans, and dry color cakes.



The special features of the patented Ovl-8 box put all of your water color needs right at the tip of your paint brush! The entire unit occupies just a small portion of the classroom desk, leaving plenty of room to work. The Ovl-8 pans are shaped to the brush, have a large wetting surface, and eliminate 32 waste-producing corners.

OVL-8. "Prang" with brush, 8 oval half pans, 6 standards, Brown and black.

Per box ..... .70
Dozen 7.00

3A. "Prang" with brush, 4 cakes, Red, Yellow, Blue, Black.
Per box ..... .50
Dozen 5.00

4. "Prang" with brush, four ¾ pans, Red, Yellow, Blue, Black.
Per box ..... .55
Dozen 5.50

5. "Prang" with brush, 4 full pans, Red, Yellow, Blue, Black.
Per box ..... .60
Dozen 6.00

8. "Prang" with brush, 8 half pans, 6 standards, Brown, Black.
Per box ..... .65
Dozen 6.50

16. "Prang" with two brushes, sixteen ½ pan assortment.
Per box 1.30
Dozen 13.00

85. "Prang" with 1 brush, 8 standard full pans.
Per box 1.20
Dozen 12.00

PRANG WATER COLOR REFILLS

Refills are supplied in half (oval or square), three-quarter and whole pans—also dry cakes. Be sure to specify the number of box when ordering.

Red, Red-orange, Orange, Yellow-orange, *Yellow,* Yellow-green, *Green,* Blue-green, *Blue, Blue - violet,* Red - violet, *Violet, White, Brown, Black, Magenta, Turquoise,* Alizarin Scarlet, Gamboge, Gold, Dark Green, Silver.

Hard Cakes for 3A. Red, Yellow, Blue, Black, White, Green, Violet, Orange, Special Red.
Dozen ..... .48 Gross 4.80

Half Pans. For No. 8, 16, OVL8 boxes. OVL8 colors in italics above.
Dozen ..... .55 Gross 5.50

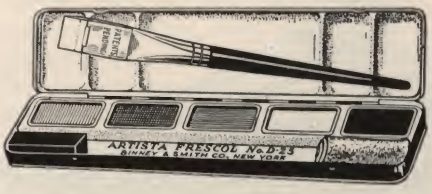
Half Pans. Gold, Silver.
Dozen ..... 1.10 Gross 11.00

Three-quarter pans for 4 box. Red, Yellow, Blue, White, Black.
Dozen ..... .66 Gross 6.60

Whole Pans. 5 and 85 boxes, Red, Orange, Yellow, Green, Black, Violet, Blue, Brown, White.
Dozen ..... .84 Gross 8.40

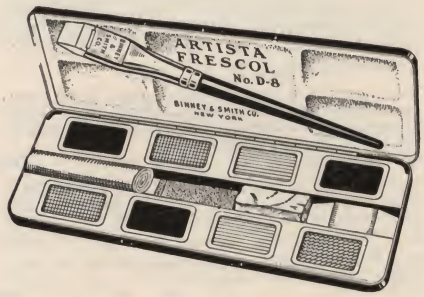
ART MATERIALS

ARTISTA FRESCOL



FRESCOL No. D-25. Contains five colors, red, yellow, blue, black and white, in small oblong pans; one patented brush complete with felt tip, one eraser and a felt pad. Put up in attractive metal box in which instructions for use are included.

Box 1.10 Doz. 12.60 Gross 138.24



FRESCOL No. D-8. Contains eight colors in small oblong pans. Colors: Red, Light Yellow, Ultramarine Blue, Peacock Blue, Magenta, Burnt Sienna, White, Black. Patented felt brush with extra felt refill, eraser, sand paper and felt pad. In attractive metal box in which instructions for use are included.

Box 1.60 Doz. 18.39 Gross 201.60

REFILLS FOR FRESCOL BOXES

Frescol small oblong refills. Colors available: red, vermillion, yellow ochre, medium yellow, light yellow, burnt sienna, green, peacock blue, ultramarine blue, magenta, black and white. State colors.

Dozen..... 1.05 Gross..... 11.52

Frescol brush, complete with felt painting tip:

Dozen..... 5.25 Gross..... 57.60

Felt tips for refilling Frescol brush:

Dozen..... .51 Gross..... 5.76

Kneaded erasers, 24 in box:

Per dozen..... .72

ARTISTA POWDER PAINT

Artista powder paint is odorless and economical as small or large quantities may be prepared for use and kept without spoiling for a considerable time. Ideal for easel work and decorative design and recommended for use in kindergarten and lower grades and high school for poster art work, color sketches, interior decoration, stage scenery or wherever great areas are to be covered with smooth opaque color. May be applied to paper, wood, composition board, cloth and clay products. Directions for mixing included. Eighteen colors: red, red orange, orange, yellow, yellow orange, green blue green, blue, blue violet, violet, red violet, dark green, turquoise blue, magenta, brown, black, white, gray.

COLORS

Package..... .83 Dozen..... 9.00

EXTENDING WHITE

Package..... .58 Dozen..... 6.36

SHOW-CARD COLORS

Artista Tempera is made in 26 colors including black, white, gold and silver. Smooth and creamy, this opaque water color insures success in school poster work and in the professional field of art. These colors cover large or small areas evenly and completely and can be used a second time over a first coat without flaking off. The colors intermix perfectly. No glazing in any light mars the effect of the mat texture. On some surfaces the decorated surface can be protected by giving it a coat of pure lacquer.

No. 116 Artista Tempera Set. Sixteen student size glass jars in cardboard box. Colors: red, red orange, orange, yellow orange, yellow, yellow green, green, blue green, blue, blue violet, violet, red violet, magenta, turquoise blue, black and white. Each..... 3.20

No. 100 Artista Tempera Set. Twelve student size jars, Colors: red, orange, yellow, yellow green, green, blue, turquoise blue, violet, white, black, brown and gray. Each..... 2.40

No. 108 Artista Tempera Set. Eight student size jars. Colors: red, orange, yellow, green, blue, violet, white and black. Each..... 1.80

No. 105 Artista Tempera Set. Six student size jars. Colors: red, yellow, blue, green, white and black. Each..... 1.50

ARTISTA TEMPERA IN BULK

Artista Tempera Show Card Colors are put up in bulk to enable customers to purchase enough of one color to cover a large area or to keep a supply on hand. They are put up in glass jars with a screw cap in the following colors:

Red, red orange, orange, yellow orange, yellow, yellow green, green, blue green, blue, blue violet, violet, red violet, dark red, emerald green, dark green, turquoise, dark blue, magenta, lavender, light brown, brown, black, white, grey, gold, silver.

	Colors		Gold and Silver	
	Each	*Dozen*	*Each*	*Dozen*
2 oz. jar	.35	3.72	.53	5.64
8 oz. jar	.93	9.84	1.40	14.76
16 oz. jar	1.80	18.96	2.40	25.20
32 oz. jar	3.08	32.40	4.50	47.38
Student size	.20	2.16	—	—

ART MATERIALS

PRANG TEMPERA

Prang Tempera colors are clear, beautiful, live and brilliant. They dry quickly with a smooth, velvety surface and "flat" texture. Prang Tempera is completely opaque—covers light over dark—and does not bleed. It will neither crack nor flake. Microfine grinding makes it excellent for pen and air-brush.

820 Red	836 Magenta
821 Red-orange	837 Scarlet
822 Orange	838 Burnt Sienna
823 Yellow-orange	839 Flesh
824 Yellow	840 Gold (2 & 8 oz. only)
825 Yellow-green	841 Silver (2 & 8 oz. only)
826 Green	842 Turquoise Blue
827 Blue-green	881 Sky Blue
828 Blue	883 Emerald Green
829 Blue-violet	884 Pink
830 Violet	885 Burnt Umber
831 Red-violet	896 Dark Green
832 White	897 Prussian Blue
833 Brown	899 Deep Yellow
834 Black	
835 Neutral Gray	

	Per jar	Per doz.
Studio size—All Colors	.15	1.50
1-oz.—All Colors	.22	2.20
2-oz.—All Colors	.35	3.50
2-oz.—Silver and Gold	.50	5.00
8-oz.—All Colors	.90	9.00
8-oz.—Silver and Gold	1.40	14.00
16-oz.—All Colors	1.50	15.00
32-oz.—All Colors	2.80	28.00
Gallon Size—All Colors	9.00	90.00

NEW DAY-GLO TEMPERA

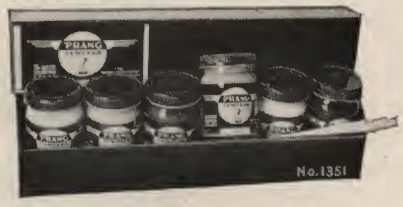
Vivid colors that glow in the daylight. Adds new life to posters and other art work. Neon Red, Fire Orange, Arc Yellow, Signal Green, Saturn Yellow.

2 oz. jars—Each 1.00 Dozen 10.00

DAYGLO SET

No. 2106. 5 ¾ oz. jars 3.75

TEMPERA COLOR SETS



No. 844. 16 2-oz. Jars, 12 standard colors with Black, White, Brown, Gray.
Per box 5.00

No. 845. 16 1-oz. Jars, same assortment as above.
Per box 3.50

No. 1351. 6 Studio Size, 1 each Blue, Yellow, Red, Green, White, Black.
Per box ..... .85

No. 1351. Special—6 Studio Size, 1 each Yellow, Scarlet, Magenta, Blue, Turquoise Blue, Black.
Per box ..... .85

No. 1352. 12 Studio Size, 9 colors listed above and Orange, Violet, Yellow-green.
Per box 1.70

PRANG POWDER TEMPERA

Prang Powder Tempera is an all-purpose, inexpensive medium readily adaptable to any color need or any surface. It is ideal for correlation, free expression, stage craft, finger painting, oil painting, enameling, and many other purposes.

Prang Powder Tempera mixes easily and instantly with water. Fine in texture, smooth, velvety finish. Will not flake, peel or streak. Odorless and keeps without spoiling. Brilliant colors. An inexpensive Extending White is available for mixing with Prang Powder Tempera to add volume and decrease cost.

The 16-oz. can makes up to two liquid quarts or more, depending upon desired color strength. The beautiful Duo-Pour package provides for removal of large or small amounts.

1550 Yellow	1556 Blue	1562 Yellow-green
1551 Orange	1557 Green	1563 Red-violet
1552 Red	1558 Magenta	1564 Blue-green
1553 Turquoise	1559 Black	1565 Red-orange
1554 Brown	1560 White	1566 Yellow-orange
1555 Violet	1561 Extender	1567 Blue-violet
		1568 Flesh

All colors but Extending White No. 1561.
Per can... 1.15 Per dozen... 11.50

Extending White No. 1561.
Per can... .70 Per dozen... 7.00

ALABASTINE

ART COLOR SCHOOL-PAK consists of nine liberal size cans of Art Colors: White, Yellow, Purple, Black, Blue, Orange, Scarlet, Green, and Brown. A complete outfit of all the popular shades ready for instant use. The deeply indented covers on the cans provide ideal mixing bowls.

Special School-Pak consisting of 9 standard colors in metal covered cans.
Price, per pak 1.50

SHAW FINGER PAINT

The Perfect Medium for Self-Expression

This is the ORIGINAL ready to use finger paint. Shaw Finger Paint is of creamy consistency, in pure colors, and absolutely harmless to skin and clothing. Finger paintings may be mounted for exhibition purposes, or they may be used for craft work for decorating scrap books, portfolios, lamp shades, boxes, screens, waste paper basket, etc. By spraying with clear shellac designs can be made permanent and washable.

No. 2 Set. Six ½ pint (8 oz.) cans Shaw Finger Paint in the following colors: Red, Yellow, Blue, Green, Brown, Black. 24 sheets of paper, 6 spatulas and instructions for use included in set.
Per set 5.00

No. 3 Set. Six ¼ pint (4 oz.) cans Shaw Finger Paint. Same colors as in No. 2 set with 12 sheets of paper and 6 spatulas and instructions for use.
Per set 3.00

No. 4 Set. Six 2 oz. jars. Assorted colors including paper, spatulas and instructions.
Price 2.00

Bulk Finger Paint

½ pint jar ..... .60
¼ pint jar ..... .40
1 pint jar 1.20
1 quart jar 2.00
1 gallon jar 6.00
Specify color when ordering.

Paper—Shaw Finger Paint

No. 2 Roll. 24 sheets 16x22 ..... .90
No. 3 Roll. 12 sheets 16x22 ..... .50
Package 100 sheets 3.30

ALABASTINE ART COLORS

A new dry powder color for water color work. Will mix readily in cold or warm water and can be used on most any surface, including cloth, canvas, burlap, wall board and common wrapping paper. Used extensively by teachers and art supervisors in kindergarten, primary grades, high schools, and art institutions in making posters, show cards, panels, etc. Easily washed from hands or clothes. Contains no analine dye.

One pound will make about a pint of water color material. Put up in carton containing one pound.

No.	*Color*	*Price*	*No.*	*Color*	*Price*
1	Yellow	.40	9	Blue	.60
2	Turquoise Blue	.40	10	Bright Orange	.50
3	Brick Red	.40	12	Scarlet	.70
5	Dark Green	.50	16	Bright Green	.40
6	Dark Red	70	97	Seal Brown	.40
7	Black	.50	98	Dark Blue	.60
8	Magenta	.50			

W—Pure white (wt. each 1 lb.) ..... .40
4—Special purple in 1-lb. pkgs., per pkg. ..... .70

DECORATING MATERIALS AND SUPPLIES

PRANG TEXTILE COLORS

Prang Textile Colors are the original, dependable colors for hand decorating fabrics. They will not stiffen the cloth, are non-bleeding, non-fading, washable and dry-cleanable. They are quickly and easily applied and are set by simply applying heat. Now anyone can duplicate those exquisite hand-painted dresses, blouses, hankies, linens, drapes, etc. by stenciling, silk screening, hand-blocking, free brush, or air brush.

SET No. 1907

8¾-oz. jars colors: Red, Yellow, Orange, Blue, Green, Violet, Black, White, 2¾ oz. jars Extendor, Stencil Brush, Stencil Cutter, 4 sets Stencils, 3 sheets E-Z Cut Stencil Paper, 3 sheets Zweybruck outlines, 1 set instructions, 1 "Do It Yourself" booklet. Per set 4.00

SET No. 1905

8¾-oz. jars colors: Red, Yellow, Orange, Blue, Green, Violet, Black, White. 3¾-oz. jars Extendor, 1¾ oz. jar Penetrator-Thinner, 1 set instructions. Per set 3.50

SET No. 1904

4¾-oz. jars colors: Red, Blue, Yellow, White. 2 jars Extendor, 1 Stencil Brush, 3 E-Z Use Stencils, small size, single colors, 3 sheets E-Z Cut Stencil Paper, 1 set stenciling instructions. Per set 2.50

DEK-ALL

The material contained in these sets is specifically made for decorating pottery, glass, china, metal and other hard, non-porous surfaces.

SET No. 1278

Contains 6 colors, brush and instructions for decorating.
Per set 2.00

SET No. 1280

Contains six, ¾-oz. jars plus cleaner and thinner. Per set 3.00

DEK-ALL IN BULK

Available in 8 colors plus cleaner and thinner, put up in ¾, 2, 8, and 16 oz. jars. Write for prices and complete description.

SILK SCREEN KIT

11 jars Prang Textile Colors and special mediums for the Lacquer Film, E-Z Cut Paper, and Block-Out Methods of Silk Screening, all special materials for these methods, 9x12" Frame, 1 pc. Silk, Squeegee, Brush, Stencil Knife, Folder of design ideas, Complete directions.

No. 2127 ..... 11.00

LINSEED OIL

A refined, pure, medium for mixing tender tones or careful thinning of thick oil colors.

2½ oz. bottle	.25
Half Pint	.75
Pint	1.35
Quart	2.50

TURPENTINE

Rectified pure gum spirits for thinning oily painting mediums, oil or turpentine varnishes. An excellent cleaner for brushes used in oil colors.

2½ oz. jar	.15
Half Pint	.40
Pint	.60
Quart	1.10

SHELLAC

A top quality white or orange shellac. Transparent and quick drying. Packaged for the many little jobs that turn up. Economical.

2 oz. Jar	.25
4 oz. Jar	.45
8 oz. Jar	.80
16 oz. Jar	1.55
32 oz. Jar	3.00

FOIL PAPER

Beautifully laminated and varnished foil paper in colors of unprecedented brilliance. Ideal for decorations, window displays, and gift wrappings. Colors: silver, gold, fushia, dark green, turquoise, dark blue, light blue, red, pink, copper. Also special holiday patterns.

26"x25' roll. Silver	2.50	Colors	2.75
26"x50' roll. Silver	4.25	Colors	4.75
26"x100' roll. Silver	8.00	Colors	9.00

TEXTILE COLORS IN BULK

Available in the following colors:

1171	Standard Red	1178	Blue
1170	Red (Chinese)	1180	Violet
1172	Orange	1181	Mexican Violet
1174	Yellow	1182	White
1176	Green	1184	Black

	Each	Doz.
¾ oz. jars. Colors	.30	3.00
¾ oz. jars. Extendor	.20	2.00
2 oz. jars. Colors	.60	6.00
2 oz. jars. Extendor	.35	3.50
2 oz. jars. Penetrator-thinner	.35	3.50
8 oz. jars. Colors	1.50	15.00
8 oz. jars. Extendor	.95	9.50
8 oz. jars. Penetrator-thinner	.95	9.50
16 oz. jars. Colors	2.50	25.00
16 oz. jars. Extendor	1.75	17.50

No. 1960. Prang Designer Ink.
¾ oz. jar. Each ..... .50

No. 1961. Prang Surface Powder.
Pkg. to make 8 oz. Each ..... .40

No. 1962. Prang Blockout Solution.
8 oz. jar. Each ..... .75

No. 1199. Hand Blocking Extendor.
8 oz. jar. Each 2.00
2 oz. jar. Each ..... .65

STENCIL AND SILK SCREEN PAPER

No. 1897. E-Z Cut Stencil Paper.
12 sheet pkg., 7" x 8½" ..... .38

No. 1900. E-Z Cut Stencil Paper.
20 sheet pkg., 9" x 12" ..... .75

No. 1901. E-Z Cut Stencil Paper.
24"x36". Per dozen 3.00

No. 2129. E-Z Cut Silk Screen Paper
20 sheet pkg., 9" x 12" ..... .75

ART BRUSHES

WATER COLOR BRUSHES

Very fine quality camel hair water color brushes.

In nickel ferrules, securely fastened to maroon polished handles. Extra quality hair. These brushes will come to a fine point.

	Each	Doz.
No. 3017. 1	.20	2.00
No. 3017. 2	.24	2.40
No. 3017. 3	.25	2.50
No. 3017. 4	.28	2.80
No. 3017. 5	.30	3.00
No. 3017. 6	.35	3.50
No. 3017. 7	.40	4.00
No. 3017. 8	.45	4.50
No. 3017. 9	.50	5.00
No. 3017. 10	.60	6.00
No. 3017. 12	.90	9.00

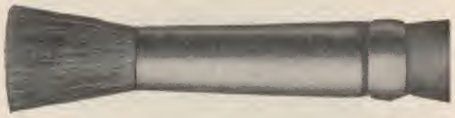
A LOW PRICED SCHOOL QUALITY BRUSH

A camel hair brush in tin ferrules and on blunt black polished handles.

A good quality camels hair brush.

No. 1095. Size No.	Doz.	Gross
No. 1. Smallest	.84	8.40
No. 2. Fine	.96	9.60
No. 3. Small	1.08	10.80
No. 4. Medium Small	1.20	12.00
No. 5. Medium	1.30	13.00
No. 6. Medium large	1.44	14.40
No. 7. Large (popular size)	1.68	16.80
No. 8. Large	1.92	19.20
No. 9. Wash Brush	2.16	21.60
No. 10. Large Wash Brush	2.52	25.20

STENCIL BRUSHES



These stencil brushes are made of fine quality white bristle with round top trimmed square, metal ferrules and short plain wood handle. They are ideal for any type of stencil work.

	Size	Each	Doz.	Gross
No. 1131.	2	.20	2.20	22.00
No. 1131.	4	.30	3.30	33.00
No. 1131.	6	.40	4.40	44.00
No. 1131.	10	.65	6.30	63.00
No. 1131.	12	.75	7.30	73.00

RED SABLE BRUSHES—ROUND

For oil painting. Polished cedar handles, metal ferrules.

No. 450 Size No.	Diameter at ferrule	Length clear	Each	Doz.
No. 1.	1/32"	1/4"	.43	4.73
No. 2.	5/128"	9/32"	.47	5.17
No. 3.	3/64"	5/16"	.51	5.61
No. 4.	4/64"	11/32"	.53	5.83
No. 5.	5/64"	3/8"	.57	6.27
No. 6.	6/64"	13/32"	.63	6.93
No. 7.	7/64"	7/16"	.68	7.48
No. 8.	8/64"	15/32"	.74	8.14
No. 9.	17/128"	1/2"	.80	8.80
No. 10.	9/64"	9/16"	.89	9.79
No. 11.	10/64"	5/8"	1.03	11.33
No. 12.	21/128"	11/16"	1.12	12.32
No. 16.	13/64"	27/32"	2.70	29.70
No. 20.	1/4"	1"	3.34	36.74

RED SABLE SHOW CARD BRUSHES

Short polished black handles, metal ferrules. These brushes are made with great care especially for show card writing and are suitable for professional or amateur work.

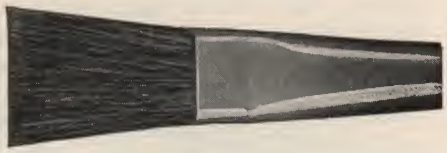
No. 252 Size No.	Diameter at ferrule	Length clear	Each	Doz.
No. 1.	3/64"	9/16"	.48	5.28
No. 2.	1/16"	5/8"	.52	5.72
No. 3.	5/64"	11/16"	.54	5.94
No. 4.	3/32"	3/4"	.66	7.26
No. 5.	7/64"	13/16"	.72	7.92
No. 6.	1/8"	7/8"	.82	9.02
No. 8.	5/32"	1"	1.25	13.75
No. 10.	3/16"	1-1/8"	1.68	18.48
No. 12.	7/32"	1-1/4"	2.53	27.83

LETTERING BRUSHES

These brushes are made of the finest quality light ox hair with round seamless metal ferrules and black polished handles.

	Size	Each	Doz.
No. 6745.	1	.40	4.00
No. 6745.	3	.53	5.30
No. 6745.	5	.73	7.30
No. 6745.	7	.99	9.90
No. 6745.	9	1.25	12.50
No. 6745.	11	1.52	15.20

CAMEL HAIR EASEL BRUSHES



ROUND No. 6103

		Each	Doz.
No. 1.	3/4"	.25	2.50
No. 2.	13/16"	.30	3.00
No. 3.	15/16"	.40	4.00
No. 4.	1"	.50	5.00
No. 5.	1-1/12"	.60	6.00
No. 6.	1-3/16"	.80	8.00

FLAT No. 6843

		Each	Doz.
No. 1.	1/4"	.25	2.50
No. 2.	3/8"	.30	3.00
No. 3.	1/2"	.35	3.50
No. 4.	5/8"	.45	4.50
No. 5.	3/4"	.50	5.00

BRUSHES FOR POSTER WORK

Special brushes for all tempera colors and general poster and show card work. Made of black Chinese bristles, nickel ferrules and polished handles.

	Each	Doz.
No. 6851. 1/4"	.40	4.00
No. 6851. 3/8"	.46	4.60
No. 6851. 1/2"	.60	6.00
No. 6851. 3/4"	.79	7.90
No. 6851. 1"	.99	9.90

ECONOMY EASEL BRUSHES

These round camel-hair easel brushes have metal ferrules, long yellow-polished handles.

	Size	Each	Doz.	Gross
No. 6106.	1	.10	1.15	12.65
No. 6106.	2	.12	1.35	14.85
No. 6106.	3	.14	1.55	17.05
No. 6106.	4	.18	2.05	23.75
No. 6106.	5	.23	2.65	39.15
No. 6106.	6	.29	3.44	37.80
No. 6106.	7	.35	4.00	44.00
No. 6106.	8	.45	5.20	57.20

BRUSHES—CRAFT SUPPLIES—DECORATIONS

OVAL WASH BRUSH

This flat oval wash brush made of finest quality extra-long camel's hair with seamless metal ferrules, black polished handle.

No. 58. Each . . . .90 Per dozen 9.00

OIL PAINTING BRUSH

These oil painting white bristle brushes are made of good quality white bristle with metal ferrules, long yellow polish handles.

	Size	Each	Dozen	Gross
No. 4093B	1	.17	2.00	20.00
No. 4093B	2	.18	2.10	21.00
No. 4093B	3	.19	2.20	22.00
No. 4093B	4	.19	2.25	22.50
No. 4093B	5	.20	2.30	23.00
No. 4093B	6	.20	2.40	24.00
No. 4093B	7	.21	2.50	25.00
No. 4093B	8	.22	2.60	26.00
No. 4093B	9	.23	2.70	27.00
No. 4093B	10	.24	2.80	28.00

All types of School and professional brushes are available. If the brushes you require are not shown, please write this office or consult our representative. Prices and information will be furnished immediately.

HIGH-LITE CANVO BOARDS

	Per doz.		Per doz.
8x10"	1.50	14x18"	3.95
9x12"	1.85	16x20"	5.10
10x14"	2.40	18x24"	5.80
12x16"	3.00	22x28"	8.20

MAPLE PALETTES

Size	Price Each *Oblong*	*Oval*
8x10"	.85	.95
9x12"	.95	1.10
10x14"	1.10	1.20
12x16"	1.25	1.35

CRAFT AND DECORATING INSTRUCTION BOOKS

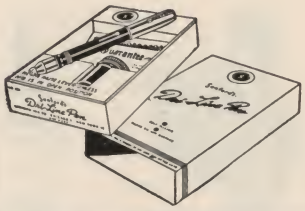
No. 504. NEW DENNISON-KRAFT IDEAS. Includes many clever new crafts fashioned from crepe paper. Complete directions. Ea. 10

No. 526. GAY DECORATIONS. Full of suggestions that are fitted to your decorating needs—ranging from the most simple to the most elaborate. Ea. 10

No. 545. HOW TO MAKE A LOVELY BOUQUET. Contains step-by-step instructions and patterns for making ten popular flowers with crepe paper. Ea. 05

No. 1. CREPE PAPER TWISTER. A small wooden unit for stretching and crushing narrow strips of crepe paper that are to be used for crocheting, weaving and other crepe paper craft. Ea. 10

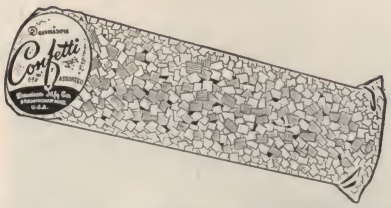
DRI-LINE PENS



This precision writing instrument dries instantly, flows smoothly and writes on any surface. It is self-filling and is especially good for poster lettering and for addressing packages. The Dri-line pen is waterproof and the supply of ink which comes with the pen works perfectly in all makes of felt-pointed brush pens that use a naptha base ink. The pen is shiny aluminum with a screw top that prevents any leakage. Three different types of felt points as well as a generous supply of special ink and two pen wipers come packaged with it.

Each pen set 3.95

CONFETTI



Tiny squares of brilliantly colored and white crepe paper absolutely free from dust or dirt packed in cellophane tubes. Assorted colors.

No. 144. Each . . . .10 Per doz. 1.00

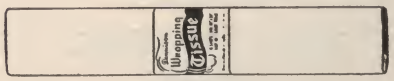
CELLOPHANE

Continuous rolls of cellophane in cutter edge boxes are indispensable for decorating, wrapping, craft work and displays protection.

No. 3120. 20" x 100', clear only 1.55
No. 3100. Colored, 20" x 100' 1.70

No. 3151	Lt. Green	**No. 3156**	Orchid
No. 3153	Red	**No. 3157**	Lt. Blue
No. 3154	Dk. Green	**No. 3158**	Dk. Blue
No. 3154	Amber	**No. 3160**	Pink

TISSUE PAPER



This finest quality tissue paper is wrapped ten sheets to a fold. It is available in six different shades for colorful wrapping and decorating.

No. 515. White, per fold 10
No. 712. Blue, per fold 10
No. 812. Red, per fold 10
No. 912. Green, per fold 10
No. 1210. Pink, per fold 10
No. 1220. Light Blue, per fold 10

STREAMERS

These streamers are made of flame-proof crepe paper in a continuous roll in the following colors: white, black, blue, green, yellow, orange, red.

No. 600. 35' x 2", per roll .15 per doz. 1.50
No. 700. 50' x 2", per roll .15 per doz. 1.50

ART AND CRAFT SUPPLIES

NEW!!
SCHOOL SERVICE PLASTIC SPRAY

- CONVENIENT
- DRIES IN 5 MINUTES
- NON-INFLAMMABLE
- CLARIFIES
- TRANSPARENT
- WATER REPELLENT
- DOES NOT DISCOLOR
- PREVENTS TARNISHING

USE ON: Metal, wood, cloth, paper, leather, plastics, glass, pastel, chalk, crayon, charcoal, or water color artwork, ceramics and clay models.

Here is the new modern way of applying a protective coating without the use of brushes, paint pans or atomizers. SCHOOL SERVICE liquid plastic is compressed in a metal container with a pushbutton spray nozzle that produces a micro-thin film of plastic over the entire surface. The container is always ready to use by merely pressing the spray nozzle and spraying the surface of the artwork or object to be protected. Articles coated with this material are water repellent and thus can be wiped off with a mild solution of soap and water.

	Each	Dozen
School Service Clear	1.95	23.40
School Service Aluminum	2.25	27.00

FIXATIF

This trouble-free fixatif atomizer guarantees a fine misty spray. All parts are plated with tarnish-proof metal to prevent corrosion. Top is adjustable to any angle. This new atomizer eliminates constant refilling and is light enough to operate with one hand. This atomizer was specifically designed for fixatif application.

Atomizer only	1.35
Atomizer and 2 oz. bottle fixatif	1.50
Two oz. bottle	.30
Half pint bottle	.70
Pint bottle	1.25
Quart bottle	2.00
Atomizer, Folding, Each	.30

AMAZART

AmazArt colors are ready to use right from the tube. No preparation, no fuss, no cleaning up, no extra equipment required.

Grasping tube as you would a pen, hold tube perpendicular to the surface to be decorated, pressing downward while painting with sufficient pressure to allow paint to flow freely from the tube tip.

DECORATES: Tile, pottery, parchment, wood, cloth, glass, leather, paper, plastic, bone, and metal.

Finished art work is washable.

Colors: Red, yellow, blue, green, red-violet, yellow green, brown, black, and white. 2 oz. tube.

Per tube 1.00 Dozen tubes 10.00

X-ACTO COMPLETE CARVING SET

No. 78

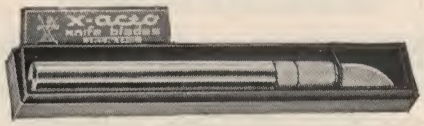
Contains 6 different gouges, 4 routers, 2 punches, 6 regular blades, 2 three inch blades, 1 No. 5 Knife, 1 No. 1 Knife. Mounted on wooden block. Each . . 5.00

X-ACTO DE LUXE KNIFE CHEST

No. 83

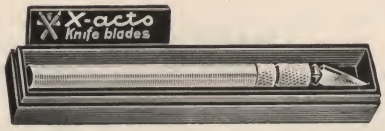
Nos. 1, 2 and 6 Knives, 8 assorted blades in patented blade holder and assortment of extra blades (value $1.00). In handy, natural finish wooden chest. Weight per dozen 9 lbs. Each 5.00

No. 52 X-ACTO SET



No. 2 Knife with 5 extra assorted blades. Wt. 1½ lbs. per doz. Each 1.00

No. 51 X-ACTO SET



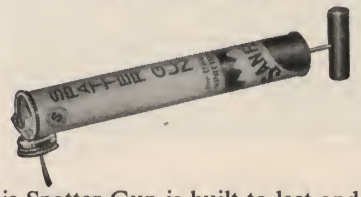
No. 1 Knife with 5 extra assorted blades. Wt. 1 lb. per doz. Each 1.00

CRAFT SUPPLIES

SPATTER CRAFT SETS

Contains: Ink, Stencils, Gun, Instructions.
No. 668. Spatter Craft Stencil Set 2.00

SPATTER GUN



This Spatter Gun is built to last and to handle easily. It gives a wide range of spatter effects.
No. 669. Each 55

SPATTER INK

REGULAR SPATTER INK

COLORS: Red, Yellow, Blue, Violet, Green, Brown, Orange, Indigo Blue, Black, and White.

No. 661. Quarts, specify color. Each 2.50
No. 662. Pints, specify color. Each 1.50
No. 663. Half Pints, specify color. Each 90
No. 664. ½ oz. Bottles, specify color. Each 15
No. 664½. Set of 5 Colors: Green, Brown, Red, Yellow, Blue 75

WASHABLE SPATTER INK

The color value of this ink is the same as regular spatter ink but it is not waterproof, and is available only in pints and quarts. Colors: Red, Yellow, Brown, Blue, Green, and Orange.

No. 671. Quarts Washable, specify color. Each 1.50
No. 672. Pints Washable, specify color. Each 90

RAINBOW LACQUERS

Rainbow lacquers do not fade, chip, or crack, and are especially recommended for adhesion to metals. They give a high-gloss "professional finish," and may be combined for further colors. They do not have an oil base, and thus leave no oil spread round the edges on art work, and craft work. These lacquers adhere firmly to all surfaces, including glass, wood, pottery, paper, textiles, metals, leather and others.

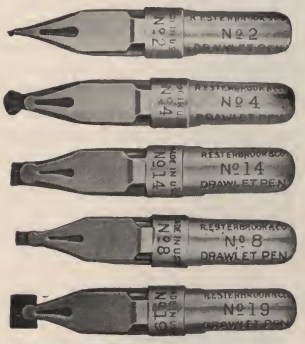
RL10	Black Gloss
RL30	White Gloss
RL20	Clear
RL40	Tanager Red
RL50	Royal Blue
RL60	Tile Green
RL43	Mandarin Red
RL32	Natural Ivory
RL70	Lemon Yellow
RL74	Orange
RL85	Burnt Umber
RL82	Chocolate Brown
RL101	Gold Finish
RL103	Copper Finish
RML10	Matte Black
RL14	Silver Finish
RL53	Azure Blue
RL36	Pearl Gray

2 oz. bottle (specify color). Ea. . . .25
4 oz. bottle (specify color). Ea. . . .45
2 oz. bottle thinner. Each 20
4 oz. bottle thinner. Each 30

SPEEDBALL LETTERING PENS

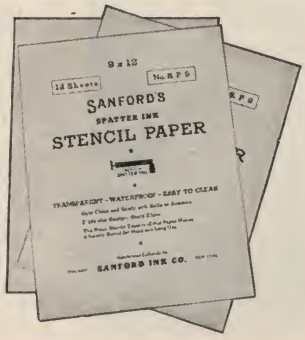
Packed 12 Pens of 1 number per box.
Per box 1.00
Per dozen boxes 11.00

DRAWLET PENS
For Lettering



No. 1 to 5. Round nibs for writing or printing.
No. 6 to 10. Square nibs for block or gothic letters.
No. 11 to 14. Designed to make shaded brush strokes.
No. 15 to 16. For block lettering.
No. 17. Music pen for scroll work.
No. 18 to 19 For block letters—shaded.
Per dozen 1.20

1 style or assorted



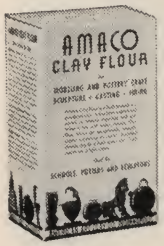
STENCIL PAPER

Especially for use with spatter ink, colored chalks, air brush, paint brush, etc. It is transparent, lies flat, cuts easily and will not crack. Can be washed with cold water and used again and again.

No. SP9. Size 9"x12" (12 sheets to an envelope). Envelope 45
Per dozen envelopes 5.40
No. SP18. Size 18"x24". (12 sheets to an envelope.) Envelope 1.80
Per dozen envelopes 21.60

CRAFT CLAYS

AMACO CLAY FLOUR



When mixed with water in the plastic mixing bag, which is supplied with each container, this finely ground powdered clay is smooth, and pliable. Recommended for hand modeling or throwing. Objects modeled of this clay are buff color when dry and chalk-like in hardness. They may be painted with showcard colors, enamels, and lacquers. When a pottery kiln is available, bowls, vases, tiles, figurines, and other pieces may be fired and glazed.

X23	5-lb. carton, per lb.	.60
X26a	50-lb. cloth bag, per lb.	5.00
X26b	100-lb. cloth bag, per lb.	9.00

AMACO MOIST CLAY

Within all containers this prepared gray potter's clay is enclosed in plastic bags to keep it smooth and pliable indefinitely. When modeled objects are thoroughly dry, they are chalk-like in hardness and may be painted with showcard colors, enamels, and other decorative mediums. When a kiln is available, pieces may be fired and glazed. When fired the clay is a light buff.

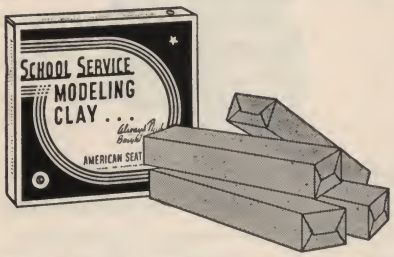
X11	5-lb. ctn., per lb.	.75
X16	10-lb. ctn., per lb.	1.40
X12	50-lb. (2 plastic bags), per lb.	5.00
X13	100-lb. (4 plastic bags), per lb.	8.00

MODELING CLAY SETS

Permoplast Modeling Clay Sets contain several bright colors of non-hardening, nontoxic modeling clay plus accessory play items such as molds or animal cutouts, tools, and instruction booklet with illustrated ideas for modeling in clay.

Permoplast Set No. 51, each	.25
Permoplast Set No. 62, each	.50
Permoplast Set No. 73, each	1.00
Permoplast Set No. 95, each	2.00

SCHOOL SERVICE MODELING CLAY



School Service Modeling Clay is clean, odorless, and sanitary. It is smooth, plastic, and ready for use. Since this clay never hardens, it is always ready for use and may be used over and over indefinately. The CP seal on the package guarantees all ingredients to be pure, harmless, and non-toxic.

Nine bright colors are available in School Service Modeling Clay. This pliable, non-hardening modeling clay is recommended for all grades of school.

Colors: Gray, Red, Yellow, Blue, Green, Cream, Terra-Cotta, Brown, Gray-Green.

	Per lb.	10 lbs. Per lb.	50 lbs. Per lb.
1-lb. pkg., one color	.28	.26	.24
1-lb. pkg., four asst. colors (Gray, Green, Red, Brown)	.31	.29	.27

CLEAN! QUICK! EASY MIXING!

With the *plastic mixing bags,* which are supplied with each container of Amaco Clay Flour and Mexican Pottery Clay, only a few minutes are required to prepare these dry clays to correct consistency for modeling.

1. Add water to dry clay in the plastic bag.
2. Tie bag securely with string.
3. Knead the bag until clay and water are thoroughly mixed.

MEXICAN POTTERY CLAY

Hardens Without Kiln or Oven Firing

Pottery modeled with this rich, terra-cotta colored clay resembles Indian or Mexican ware in color and hardness. No kiln or oven firing is necessary as modeled pieces become very hard when dried in the air.

This dry, powdered clay is easily prepared for modeling by mixing with water in the plastic bag, which is supplied with each container. Objects may be modeled by various hand methods or thrown on a potter's wheel. When completely dry they are a rich red color and little decoration with enamels or showcard colors is necessary. Clear varnish or shellac are used as protective gloss finishes.

X18	1-lb. pkg.	.40
X19	5-lb. pkg.	1.65
X17a	25-lb. cloth bag	7.50

MARBLEX

Hardens Without Firing

Marblex is a gray plastic clay ready for instant use. It may be modeled like any ordinary clay, but finished pieces resemble fired ware in hardness due to a chemical change which takes place as the clay dries in the air. The pliable clay is easily shaped into figurines, tiles, costume jewelry, and other gifts and keepsakes by various hand methods. Showcard colors, enamels, and lacquers are used to decorate dry, modeled pieces. Clear lacquer or white shellac provide a protective gloss coating. Plastic bag packing within each container keeps the clay soft and pliable indefinitely.

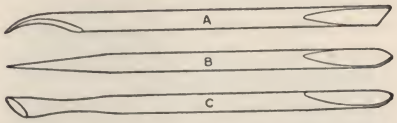
X24	1-lb. ctn.	.50
X25	5-lb. ctn.	2.00

IVORY CARVING CLAY

This dry, ivory powder is mixed with water and, like plaster, poured into forms. A pound of clay makes a block size 4" x 4" x 2". The ivory clay sets quickly and the resulting blocks or cylinders are carved while the clay is semi-hard. Ivory Carving Clay carves as easily as soap, but finished and complete dry objects are much harder and more durable than either soap or plaster.

X20. 1-lb. ctn. .45 X21. 5-lb. ctn. 1.75

MODELING TOOLS



These inexpensive, hard maple modeling tools are used in all grades of school.

Tools, A, B, or C—Each	.06
Dozen, assorted	.60

KILNS
WHEELS

AMACO Pottery SUPPLIES and EQUIPMENT

CLAYS
GLAZES

Amaco Electric Kiln No. 1A

AMACO ELECTRIC KILNS

Approved by Underwriters' Laboratories

Amaco Electric Kilns were the first of their type to be placed on the market, and they have continued to be the outstanding pottery firing equipment for over 25 years. Since they are simple to install, compactly built, attractive in appearance, and present no fire hazard, Amaco Electric Kilns are placed in the studio workshop, laboratory, or school room, where they are most convenient and of greatest value for learning firing processes.

Amaco Electric Kilns are easily and economically operated, and ceramic ware is fired under ideal conditions. Through simple switch controls which require little attention, there is a gradual rise in temperature (so necessary for proper firing of ceramic pieces) yet firings can be completed within an ordinary school or working day. Maximum attainable temperature is 2000° Fahrenheit. Firing costs are surprisingly low—the average cost of firing an Amaco Electric Kiln No. 2 is 29c figured at 3c per K.W.H.

Underwriters' Laboratories have approved all Amaco Electric Kilns as complete firing units.

Kiln No.	Firing Chamber Size	Wired For	With Pyrometer	Without Pyrometer
1A	6" x 6" x 5"	110 volt A.C.-D.C.	$ 75.00	$ 50.00
2	8" x 9" x 9"	110 or 220 volt A.C.-D.C.	150.00	125.00
4	10" x 12" x 12"	220-230 volt A.C.-D.C.	300.00	272.00
6	11" x 14" x 14"	220-230 volt A.C.-D.C.	400.00	372.00
8	12" x 15" x 18"	220-230 volt A.C.-D.C.	525.00	497.00
10	15" x 18" x 21"	220-230 volt A.C.-D.C.	700.00	672.00

AMACO BUFF FIRING CLAY

This clay is exceptionally smooth and plastic. Since it is suitable for moist modeling, casting, slip painting, pressing and throwing on a potter's wheel, it meets the varied needs of the average pottery workshop. It is an excellent all around working body and may be fired as low as Cone 05 (1904°F.) or as high as Cone 2 (2150°F.) depending on the degree of vitrification desired. At Cone 05 the clay is light buff in color.

Powder Form with Plastic Mixing Bag

5-lb. ctn., per lb. . . . . $.09
50-lb. bag, per lb. 075
100-lb. bag, per lb. 07

Moist Form with Plastic Bag Packing

5-lb. ctn., per lb. . . . . $.11
50-lb. ctn., per lb. 075
100-lb. ctn., per lb. 06

AMACO MAJOLICA GLAZES

Amaco Majolica or Gloss Glazes are brilliant in color, possess a high gloss, and give good results on almost any clay. Cone 05 (1904° Fahr.) is their suggested firing point.

GG-1	Jet Black	GG-40	Dark Green
GG-10	Transparent	GG-42	Light Green
GG-11	White	GG-46	Foliage Green
GG-20	Medium Blue	GG-61	Canary Yellow
GG-25	Turquois Blue	GG-65	Orange
GG-32	Metallic Brown	GG-760	Chinese Yellow

	Per lb.
1-lb. pkg., any glaze listed above . .	$1.20
5-lb. pkg., any glaze listed above . .	1.10
GG-50 Spec. Bright Red, per lb. . .	1.90

POTTERY UNITS

Complete pottery units with all supplies and equipment necessary for classes of varying student enrollment are available. No funds are spent for impractical or unnecessary materials and, since all products have been developed for use in conjunction with each other, excellent final results are practically assured. Each unit includes an Amaco Electric Kiln, clays, glazes, tools, miscellaneous supplies, and two pottery textbooks. Write for full details.

AMACO RED FIRING CLAY

Amaco Red Firing Clay is a beautiful red color when fired at the low maturing temperature of Cone 06 (1859°F.). Because it is suitable for moist modeling, casting, and throwing on a potter's wheel, it is a popular general purpose clay. It is unexcelled for slip painting and sgraffito decoration.

Plastic mixing bags are supplied with all containers of dry clay; plastic bag packing protects all moist clays.

	Powder Form	Moist Form
5-lb. ctn., per lb.	$.095	$.115
50-lb. ctn., per lb.	.075	.085
100-lb. ctn., per lb.	.06	.065

On Request
Complete 48-page Catalog
AMACO
POTTERY SUPPLIES AND EQUIPMENT
Kilns Wheels Clays Glazes

MODELING WHEEL

An all-aluminum wheel for modeling, finishing, and decorating pottery. The 7" head is marked with concentric circles and is weighted at the rim for greater momentum. May be attached to a table and mechanized.

Aluminum Wheel No. 5 . . . . . $5.00

BOXWOOD MODELING TOOLS

All these clay modeling tools are made from highly polished boxwood. Wires of wire-end tools are stiff, sharp, and rigidly mounted.

	Each	Per Doz.
Tools No. 6, 5, 4 (6" long)	$.15	$1.50
Tool No. 3 (9½" long)	.35	3.70
Tool No. 14 (9" long)	.50	5.40

BLOCK PRINTING SUPPLIES

LINOLEUM CUTTERS

ASSORTMENT NO. 1

Contains Cutters Nos. 1, 2, 3, 5, 6, with the new screw chuck handles. Student size. Packed in neat carrying kit.

Per Set .... .75 Dozen Sets..... 7.50

ASSORTMENT NO. 2

Contains Cutters Nos. 1, 2, 3, 4, 5, 6, with two screw chuck handles. May be used by two students. Large, attractive package.

Per Set 1.25 Dozen Sets ... 12.50

LINOLEUM BLOCKS

SHARP PRINTING EDGES

Fused Gray Linoleum Blocks have a soft, restful tone which eliminates light reflections. Made from finest battleship linoleum cut from fresh, workable stock. Cuts easily and makes clean-cut printing edges. The contrast between the Fused Gray top surface and jet black under surface makes cutting the design easy. The wood is ¾" 5-ply laminated, glued with waterproof glue. All corners are square and linoleum is $\frac{3}{16}$" thick. Blocks are type high.

Sizes	*Per Doz.*
1"x1"	.43
1½"x1½"	.76
2"x2"	1.15
2"x4"	2.30
3"x5"	3.24
4"x6"	5.20
5"x8"	8.64
6"x6"	7.80
6"x9"	11.66
8"x10"	17.56
9"x12"	24.00
12"x12"	31.10

Other sizes available—Write for prices

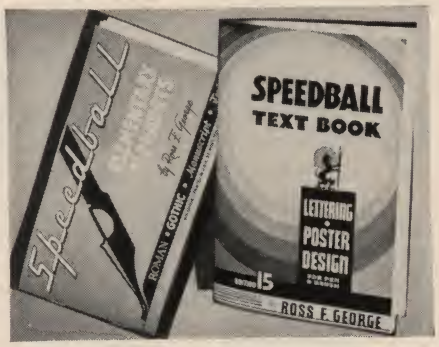
BLOCKPRINTING PRESS

MODEL B

Light weight Press built of metal. Prints up to eight inches wide. Proper pressure assured.

Each 7.50

INSTRUCTION BOOKS



ELEMENTARY ALPHABET BOOK

Contains 24 pages on the construction of Gothic, Roman, Text and Manuscript lettering. Directions on the use of pens, layout and letter spacing, poster and sho-card layout, ornamental borders, price cards, etc.

Each .15 Dozen 1.50

SPEEDBALL TEXT BOOK

6 x 9 inches. Illustrated front and back flexible cover, stapled bound. 88 pages of complete instructions of alphabets, borders, designs, commercial lettering, etc. For teachers and students.

Each .50 Dozen 5.00

BLOCK PRINTING INK

Water soluble inks should be used for all ordinary printing in the classroom. Black and white, red, orange, yellow, blue, green, violet and brown. 1½-oz. tubes.

Each .50 Dozen 5.00

REDUCER

Each .... .50 Dozen 5.00

Speedball Oil Inks are used for cloth printing, or where permanent ink is desired. Can be laundered. Made in standard colors including black and white, red, orange, yellow, blue, green, violet and brown. Also a THINNER used when necessary for brush retouching. 1½-oz. tubes.

Each..... .50 Dozen..... 5.00

THINNER

Each ..... .50 Dozen 5.00

BRAYER

A well constructed brayer with wooden handle and foot rest to prevent smears.

No. 51. Each 1.00

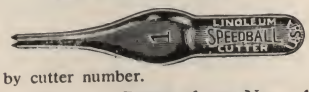
LINOZIPS

ASSORTMENT NO .37

Contains Linozip Cutters Nos. 21, 22, 23, 25 and 6, with screw chuck handle. Packed in neat carrying kit.

Per Set .... .75 Dozen Sets 7.50

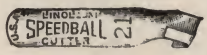
INDIVIDUAL CUTTERS



Order by cutter number.

Each .. .15 Dozen of one No. 1.50

INDIVIDUAL LINOZIP CUTTERS



Order by cutter number.

Each . .15 Dozen of one No. 1.50

GLOAMA BLOCK PRINTING INK

The eleven brilliant colors are so made that a perfect impression is made with a minimum of pressure. GLOAMA Block Printing Ink is clean and safe for school use and may easily be washed from hands and tools. 1½ oz. tubes.

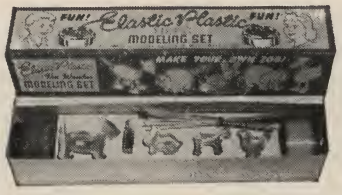
Yellow, Brown, White, Violet, Red, Blue, Magenta, Black, Green, Orange, Peacock Blue,
Per tube ..... .50
Dozen tubes 5.00

REDUCER

Per tube ..... .50
Dozen tubes 5.00

HANDICRAFT SUPPLIES

No. 298R



No. 189R

Elastic-Plastic is a durable, colorful, non-toxic molding material which requires no water, paints, or heat preparation to use. It will not stick in hair or furnishings and does not stain or discolor. This modeling material does not deteriorate by use or age and remains pliable if kept in a jar when not in use. Models will not change shape if dropped or roughly handled and they may be inlaid or carved while pliable with a hand carving or cutting tool. If left to harden, you can etch, saw, drill, sandpaper or paint the model.

Colors: emerald green, ruby red, royal blue, canary yellow.

No. RS12. (bulk-pint jars) each 1.00
No. 298R. (four colors) 2.98
No. MM4. (four colors without tools and forms) 1.39
No. 189R. (two colors) 1.89

OIL COLOR OUTFIT

Wood box, natural grain lacquer finish. 9x12", fitted with 14 tubes Devoe Artists' Oil Colors, one bottle each Picture Mastic Varnish, Rectified Turpentine and Purified Linseed Oil, Palette, Palette Knife, Palette Cup and 5 Bristle Brushes.

No. 8. ..... 12.10

Natural grain lacquer finish Wood Box, 6½x13½", fitted with 13 Double Tubes Devoe Artists' Oil Colors, one bottle each Pale Drying Oil and Rectified Turpentine, Palette, Palette Knife, Palette Cup, 2 Bristle Brushes and 1 Sable Brush.

No. 11. ..... 8.45

Wood Box, natural grain lacquer finish, 6x10", fitted with 10 single tubes Devoe Artists' Oil Colors, one bottle each Pale Drying Oil and Rectified Turpentine, Palette, Palette Knife, Palette Cup, 1 Bristle Brush and 1 Sable Brush.

No. 10. ..... 6.35

PORTFOLIOS

A very high grade portfolio made of heavy binders board with cloth back and corners and paper sides.

No. 125 Without Flaps

Size 20x26. Each 1.75
Size 23x31. Each 2.50

No. 126 With Flaps

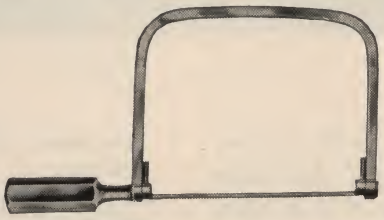
Size 20x26. Each 2.75
Size 23x31. Each 3.50

HOLDEN PORTFOLIOS

Strong Kraft Paper—side opening —string-tied.

Size 9½"x12½". Per C 7.50
Size 11½"x15½". Per C 9.00

No. 44 X-ACTO HOBBYCRAFT SAW



Steel frame with solid red plastic handle with adjustable saw blade grips. With one standard and 3 Safety Saw blades .. 1.25

No. 44R X-ACTO HOBBYCRAFT SAW REFILLS
Standard coping saw blades .... 5 for .25

CHENILLE-KRAFT

Here is one of the most intriguing pastimes ever invented—and quite by accident, too. Chenille-Kraft is a collection of glorified rayon pipe-cleaners with the "new look." They are colorful, extra long and very pliable.

100 12" pieces per package, assorted colors ..... .90

BRAIDING GIMP

This plastic braiding gimp is available for handicraft work in the following colors:

No. 101. White	**No. 210.** Pink
No. 245. Red	**No. 266.** Maroon
No. 350. Orange	**No. 421.** Light Green
No. 460. Dark Green	**No. 510.** Light Blue
No. 555. Dark Blue	**No. 720.** Yellow
No. 815. Tan	**No. 845.** Med. Brown
No. 880. Dark Brown	**No. 1.** Gold
Silver	Black

"Old Glory"—Red, White and Blue

Available in full rolls of 100 yards only.
Solid colors per roll 1.25
Old Glory per roll 1.75

A FASCINATING MEDIUM FOR SCHOOL—ART-CRAFT AND THERAPY CLASSES

Carvocast is easily sawed, cut, carved, scraped or sanded. Any child can use it, yet trained craftsmen are equally delighted with its smoothness – its complete absence of harshness in cutting. When dipped in water it becomes so soft and manageable that it can be carved with a pen point. When dry it becomes firm. The finished objects can be finished in color with almost any medium.

Carvocast comes in powder form too, for casting into any desired mold or unusual shape or size. It needs only to be mixed with water. The powder is supplied in white only but mixed with Prang Powder Tempera, it easily becomes any desired color.

Carvocast objects may be hardened to a stonelike consistency by treating them with CARVOGLAZE, a hardening powder. Carvoglaze, when dissolved in water, may be either brushed on or the object may be immersed in the liquid, the degree of hardness and penetration depending upon the number of brushings or length of immersion. The process is simple, clean, and does not harm brushes or pans. It gives Carvocast objects a fine protecting coat as tough as cement.

No. 1006. 24 blocks, 3½"x2½"x2⅛", to carton, per carton 7.20

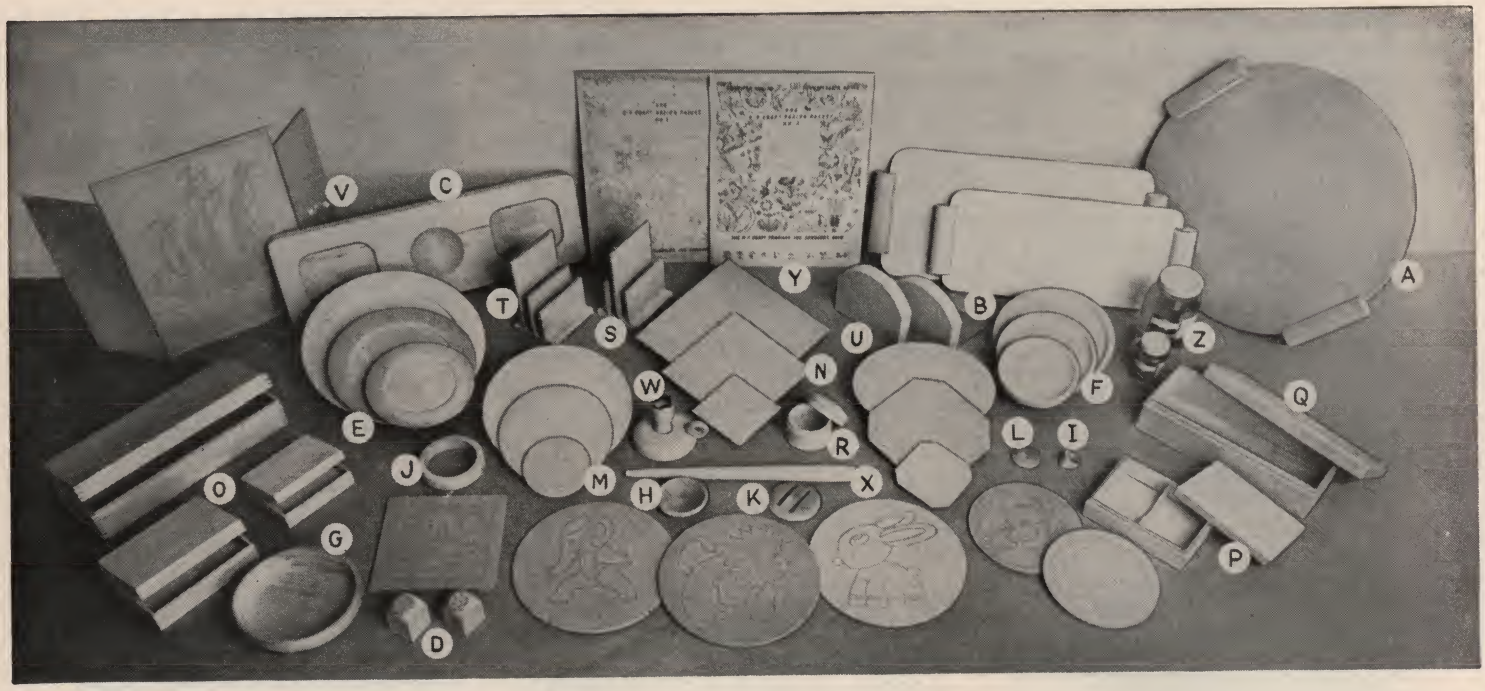
Carton contains assortment of light rose, orchid, pale green, natural.

No. 1006A. Single block, same size, pale green only, each ..... .50

No. 1007. Carvocast Powder, Natural, 5-lb. bag, per bag 1.50

No. 1008. Carvoglaze, 1-lb. can, per can ... .50

ART CRAFT MATERIAL



(A)

Serving Trays. Plywood, 16″ diameter, with handles.
No. B-1 . . . . . 1.25 Ea. 13.75 Doz.
Serving Trays. Craft Board, 16″ diameter, with handles.
No. B-2 . . . . . .75 Ea. 8.25 Doz.

(B)

Serving Trays. Solid Wood, 8″ x 16″, with handles, streamlined.
No. A-1 . . . . . .90 Ea. 9.90 Doz.

Serving Trays. Solid Wood, 6½″ x 14″, with handles, streamlined.
No. A-2 . . . . . .60 Ea. 6.60 Doz.

(C)

Relish Tray and Slicing Board. Solid Wood, 5⅞x17¾″, handles notched in ends. Reverse side used for slicing board. . . . . .90 Ea. 9.90 Doz.

(D)

Salt and Pepper Shakers. Solid Wood, 1⅜″ square x 1¾″ high. Clear Basswood.
Two to set . . . . . .30 Set 3.30 Doz. Sets

(E)

Wooden Plates. Solid Basswood.
5¾″ diameter . . . . . .40 Ea. 4.40 Doz.
7¾″ diameter . . . . . .60 Ea. 6.60 Doz.
9¾″ diameter . . . . . .90 Ea. 9.90 Doz.
13″ diameter . . . . . 2.25 Ea. 24.75 Doz.

(F)

Tra-Bowls. Solid Basswood, may be carved as well as colored.
4¼″ diameter . . . . . .35 Ea. 3.50 Doz.
5¾″ diameter . . . . . .50 Ea. 5.50 Doz.
7″ diameter . . . . . .60 Ea. 6.60 Doz.
Set of three . . . . . 1.25 Set 13.75 Doz. Sets

(G)

Wooden Bowls. Solid Wood.
6″ diameter . . . . . .90 Ea. 9.90 Doz.

(H)

Tra-Cups. Solid Wood.
2⅜″ diameter . . . . . .10 Ea. 1.10 Doz.

(I)

Signet Rings. Solid Wood.
Small, medium and large size . . . .14 Ea. 1.54 Doz.

(J)

Bracelets. Solid Wood. Easily carved.
Inside diameter 2½″ . . . . . .15 Ea. 1.65 Doz.

(K)

Belt Buckles. Solid Maple. Two slots for belt.
2¾″ diameter . . . . . .15 Ea. 1.65 Doz.

(L)

Buttons. Solid, Clear Birch. Two holes.
⅞″ diameter . . . . . .03 Ea. .33 Doz.
1⅝″ diameter . . . . . .05 Ea. .55 Doz.
2″ diameter . . . . . .07 Ea. .77 Doz.
2¾″ diameter . . . . . .10 Ea. 1.10 Doz.

ART CRAFT MATERIAL

CRAFT CLOGS, complete with wooden soles, straps, nails and a direction page giving detailed instructions and design suggestions. Small, Medium, Large.

Pair ..... .80
Per doz. pr..... 8.80

CRAFT CORK. A quality smooth-grain cork. Flexible, easily cut, glued and colored. A pleasing natural color and texture.

		Each
No. 800.	(12" x 6' x ⅛")	2.25
No. 806.	(16" x 6' x ⅛")	3.00
No. 820.	(4" x ⅛" sq. or circle)	.06
No. 830.	(6" x ⅛" sq. or circle)	.10
No. 840.	(8" x ⅛" sq. or circle)	.15
No. 846.	(12" x ⅛" sq. or circle)	.35

WOODEN EGGS. Made from seasoned wood 2¼" in length x 1⅝" diameter. Easily colored and adaptable to carving. Handy decorative container for sewing supplies, thumb tacks, etc.

Each ..... .50

Per dozen..... 5.50

DECORATIVE BOTTLE STOPPER. May be carved, easily decorated. Made from clear basswood 1 3/16" sq. by 1½" long. Tapered cork.

Set (two stoppers) .30
Per doz. pr..... 3.30

AS SHOWN ON OPPOSITE PAGE

(M)

Round Mats. Craft Board, pebbled surface one side, other side smooth 3/16" thick, make plaques, table mats, calendars, tiles, etc.

6" diameter	.10 Ea.	1.10 Doz.
8" diameter	.15 Ea.	1.65 Doz.
3½" diameter	.07 Ea.	.77 Doz.

(N)

Square Mats. Craft Board.

6" square	.10 Ea.	1.10 Doz.
8" square	.15 Ea.	1.65 Doz.
3½" square	.07 Ea.	.77 Doz.

Oval Mats. Craft Board.

6x8"	.12 Ea.	1.32 Doz.

Blockprinted Round and Square Mats. Craft Board. Assorted designs.

6"	.15 Ea.	1.65 Doz.

(O)

Wood Hinged Cover Boxes. Basswood.

No. 1700. 5⅜x3⅝x2"	.50 Ea.	5.50 Doz.
No. 20. 2⅞x3¾x1"	.35 Ea.	3.85 Doz.
No. 1702. 10⅞x3¾x2⅞"	.90 Ea.	9.90 Doz.

(P)

Wood Lifting Lid Duplex Boxes.

No. 4. 5¾x4⅜x2⅞"	.60 Ea.	6.60 Doz.

(Q)

Lifting Lid Wooden Boxes.

No. 1. 3x3½x2"	.50 Ea.	5.50 Doz.
No. 2. 3½x6½x2"	.75 Ea.	8.25 Doz.
No. 3. 4½x10½x2½"	1.00 Ea.	11.00 Doz.
Nest of three	2.00 Set.	22.00 Doz. Set

(R)

Trinket Boxes. Solid hard wood. Lifting top. Well fitted.

2½" diameter, 2" high	.25 Ea.	2.75 Doz.

(S)

Letter Holders. Craft board with wooden base, 5¾" high, base 3 x 4".

Style A	.30 Ea.	3.30 Doz.

(T)

Style B	.30 Ea.	3.30 Doz.

(U)

Book Ends. Solid wood with metal base. Basswood.

5x4"	.50 Pr.	5.50 Doz. Pr.

Waste Baskets. Made of extra strong triple fiber corrugated board.

9½x11x7¼"	.50 Ea.	5.50 Doz.

(V)

Folding Screens. Center panel 9x12". End panels 4x11".

Plain	.75 Ea.	8.25 Doz.

(W)

Candle Holders. Made of seasoned wood.

3½" diameter, 2¾" high	.30 Ea.	3.30 Doz.

(X)

Wooden Candles. Basswood.

12" long	.15 Ea.	1.65 Doz.

Napkin Rings. Solid wood.

2" Diameter	.12 Ea.	1.32 Doz.

(Y)

Design Packets. Fifty designs actual size in each packet. No. 1 contains all types of designs. No. 2 contains designs based on American Indian and Pennsylvania Dutch motifs. 1.00 Ea. 11.00 Doz.

(Z)

Finishing Varnish. Crystal clear, rapid drying varnish for use over all types of coloring work.

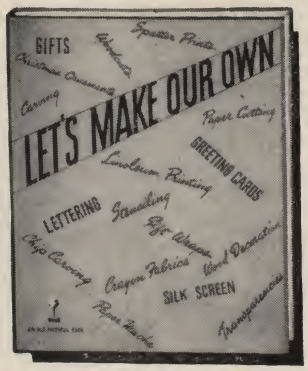
2 oz. jar	.35 Ea.	3.85 Doz.
16 oz. jar	1.30 Ea.	14.30 Doz.

ARTS AND CRAFTS BOOKS

LET'S MAKE OUR OWN

By Ella Langenberg Bolander

An enlarged edition of our former "Make Your Own", this new handicraft book incorporates all the popular projects contained in that book such as the making of greeting cards and wrapping paper, silk screening, spatter printing, linoleum block printing, fabric painting, etc. and many new and interesting subjects such as glass bottle painting, carving with Carvocast, chip carving, decoration of wood, and the making of Christmas ornaments. Its simple and easy-to-read directions make it the answer to the hobbyist's need as well as a "must" in every schoolroom. Size 8¼"x10¼", 64 pages profusely illustrated in both color and black and white.

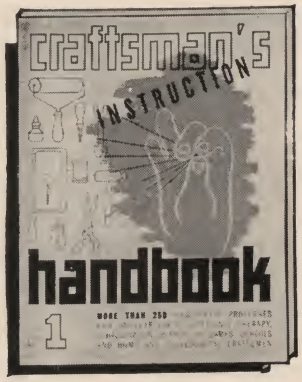


Price 3.50

CRAFTSMAN'S INSTRUCTION HANDBOOK

By Tony Parisi

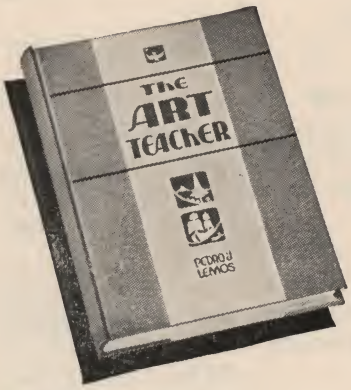
Batik, basketry, beadwork, block printing, cane seating, card weaving, carving, clay craft, coping saw work, coin craft, cork craft, etching, fabric decoration, felt projects, hammock making, jewelry, knotting and braiding, leather craft, metal craft, metal etching, metal tooling, moccasin making, raffia work, rush seating, stenciling, silk screen, stuffed dolls, tie dyeing, toy making and weaving . . . an imposing list of crafts for any one book to cover! Its practical, concise, and simple instructions in the fundamentals of the major crafts make it suitable for occupational therapy and rehabilitation groups as well as for school, camp and home crafts.



Price 1.50

THE ART TEACHER

Whether you are a beginner or fully experienced person, you find in these 384 pages, 348 full-page illustrations, all the essential help for: drawing objects, trees, landscapes, birds, animals, people, torn and cut paper work, painting and color, designing, poster work, lettering, booklet making, holiday projects, toys and handicraft, sewing, weaving, basketry, home and garden, puppets, stagecraft, pictures and art study. In addition, there are 96 pages of extra reference help.



Price 7.50

DESIGN MOTIFS OF THE PENNSYLVANIA GERMANS

By Italo L. DeFrancesco

A portfolio of Pennsylvania German motifs for classroom use. Designs are simple, direct and unaffected, suitable for adaptation to modern design problems. A number of such adaptations are illustrated.

This material represents design motifs taken from primary sources in museums and private collections. As classroom aids these designs supply a basis for free brush exercises, border designs, all over patterns, conventionalized motifs, applied design and craft problems.

Twenty-nine plates, each 8½" x 11", assembled into a portfolio with attractive cover design. Subjects include: Flowers, letters, quilt designs, butter moulds, birds, animals, people, hinges, barn decorations, and a four page folder on the art of the Pennsylvania Germans. Much fine original design and sound craftsmanship can be inspired by this folk art.

Price 1.50

THE AMERICAN COLORIST

A BOOK OF ELEMENTARY COLOR HARMONY WITH 12 COLOR CHARTS

By Faber Birren

An exceptionally practical and colorful book — helps the layman to understand color harmony and to create effective color schemes. Size 8½"x11½", 24 pages, 12 color frontispiece, 12 full page color plates, and 7 black and white illustrations.

Price 1.00

DO IT YOURSELF

Illustrated in color, this book is full of clever ideas and attractive designs for decorating with Prang textile colors.

Complete instructions for stenciling 25

SPATTER-INK TECHNIQUES

This book is profusely illustrated with both simple and elaborate designs achieved with the spatter ink technique. It gives complete directions on the cutting of stencils and the use of the spatter gun. An inexpensive way of achieving the effect of an air brush with the spatter gun is thoroughly described in the book. It is designed to enable an inexperienced person to obtain original and effective designs through the use of spatter ink materials.

Price 50

ARTEXT PRINTS AND ARTEXT JUNIOR

GREAT MASTERPIECES OF ART MOST COMMONLY ADOPTED FOR SCHOOL USE

made by color photography directly from the original paintings, insuring accuracy in color.

ARTEXT JUNIORS — 3x4 in. Small Color Reproductions, 2c each

ARTEXT PRINTS — 8x10 in. Fine Color Reproductions, 75c each

No.	Title	Artist
2	Holy Night	Correggio
4	An Aristocrat (Dist. Member Humane Society)	Landseer
5	With Grandma	MacEwen
6	Return to the Fold	Mauve
7	Children of the Shell	Murillo
8	Madonna of the Chair	Raphael
9	Age of Innocence	Reynolds
11	Song of the Lark	Breton
14	Dance of the Nymphs	Corot
15	Blue Boy	Gainsborough
19	Sistine Madonna (det.)	Raphael
23	Artist and Daughter	LeBrun
24	Mill at Wyk	Ruisdael
25	Carnation, Lily	Sargent
26	Madonna of Harpies	del Sarto
30	Artist's Mother	Whistler
34	Behind the Plow	Kemp-Welch
37	Angelus	Millet
40	George Washington	Stuart
45	Jester	Hals
47	Gleaners	Millet
51	Orphanage at Katwyk	Artz
54	Russian Winter	Grabar
56	Avenue of Trees	Hobbema
60	View of Delft	Vermeer
63	Cotopaxi, Ecuador	Church
68	Paris Boulevards	Renoir
84	Moonlight, W. I. Light	Homer
85	Mona Lisa	da Vinci
92	Laundress	Daumier
93	Last Supper	da Vinci
97	Syndics	Rembrandt
98	Aurora	Reni
101	Pilgrims Going to Church	Boughton
102	Storage Room	de Hooch
105	Calmady Children	Lawrence
106	Vigil	Pettie
107	Boy with Rabbit	Raeburn
110	Signing Declaration	Trumbull
111	Baby Stuart	Van Dyck
114	Feeding Her Birds	Millet
115	Sir Galahad	Watts
116	Santa Fe Trail	Young-Hunter
118	Primitive Sculptor	Couse
121	Lady with Lute	Vermeer
123	Miss Bowles	Reynolds
124	Church at Old Lyme	Hassam
125	Fighting Temeraire	Turner
126	Portrait of Lincoln	Volk
127	Fog Warning	Homer
128	Laughing Cavalier	Hals
140	Squirrels	Durer
146	Torn Hat	Sully
147	Sunflowers	Van Gogh
151	In the Country	Blommers
157	Going to Work	Millet
160	Night Watch	Rembrandt
161	Indian Harvest	Couse
162	Saying Grace	Chardin
163	Spring	Corot
168	Children of Charles I	Van Dyck
172	Men are Square	Beneker
176	Virgin and Child	Murillo
177	Madonna del Granduca	Raphael
181	Boyhood of Raleigh	Millais
182	Shoeing the Bay Mare	Landseer
183	Pasturage	Troyon
184	Haymakers	L'Hermitte
197	Battersea Bridge	Whistler
198	Virgin	Thayer
199	Whistling Boy	Duvemeck
200	Harp of the Winds	Martins
205	Men on the Dock	Bellows
207	Northeaster	Homer
228	Girl with Cat	Hoecker
240	Pinkie	Lawrence
268	Daniel Boone	Bingham
269	Golden Days	Dufner
272	Woods in Winter	Bundy
274	Haymakers	Steele
285	Las Meninas	Velasquez
295	Blue Vase	Cezanne
315	Master Lambton	Lawrence
317	Coming of the White Man	Reid
319	Boy Lincoln	Johnson
324	Mexican Child	Rivieria
328	Cornfield	Constable
334	Cornfields in Provence	Van Gogh
341	Red Jacket	Smith
350	Zebras	Arledge
354	Don Manuel Osorio	Goya
375	Penn's Treaty	West
406	Portrait of Charles I	Van Dyck
422	Dutch Courtyard	de Hooch
722	Mt. Ste. Victoire	Cezanne
729	Elephants at Circus	Curry
737	Young Girl	Renoir
812	Dignity and Impudence	Landseer
877	American Gothic	Grant Wood
956	Salisbury Cathedral	Ginner

SCULPTURE AND ARCHITECTURE (Black and White)

8 x 10 in. Size 25c — 3 x 4 in. Size $2.00 per 100

500	Appeal to Great Spirit	Dallin
501	Abraham Lincoln	St. Gaudens
502	Minute Man	French
504	Puritan (Deacon Chapin)	St. Gaudens
506	Sakakawea	Crunelle
507	Black Hawk	Taft
601	Capitol at Washington (from Photo)	
602	Independence Hall (from Photo)	
604	Taj Mahal, Agra, India (from Photo)	
606	Lincoln Memorial (from Photo)	

INDOOR FLAGS AND FLAG OUTFITS

TAFFETA FLAGS

For Indoor Use Only

Glory Gloss U. S. Flag with embroidered stars and sewed stripes, ornamented with one pair of 4" yellow tassels and cord. Flag mounted on an 8' ash or oak banner pole with brass screw joint, surmounted by a 4" brass eagle, complete with gold bronzed Economy Stand.

No. 550F—3x5'
Fringed. Price complete 37.80

No. 550P
Same as above without fringe .. 35.20

Glory Gloss U. S. Flag, with embroidered stars and sewed stripes, ornamented with one pair of 6" yellow tassels and cord. Flag mounted on an 8' ash or oak banner pole with plain brass screw joint, surmounted by a 4" brass eagle, complete with gold bronzed Economy Stand.

No. 560F—4⅓x5½'
Fringed. Price complete 45.50

No. 560P
Same as above without fringe .. 42.50

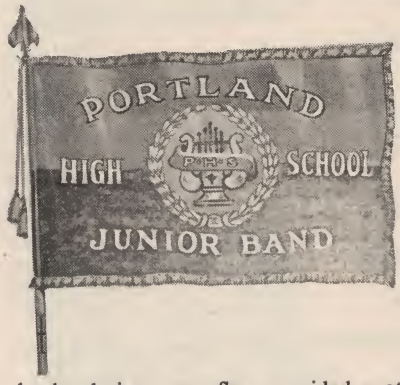
HEAVY QUALITY RAYON FLAGS

For Indoor Use Only

Rayon U. S. Flag with embroidered stars and sewed stripes with 6" yellow tassels and cord. Flag mounted on 8'x1¼" oak banner pole with a brass screw joint surmounted by a 7" brass eagle. Complete with a gold bronzed 4-legged stand.

No. 450F. 3x5' With fringe Price complete 64.00
No. 450P. Same as above without fringe 61.50

SCHOOL AND BAND FLAGS



Fine looking colorful flags made up in your own school design in extra - strength cotton. bunting or rayon taffeta. Appliqued (sewed) letters and design. Prices include pole hem and 2" golden yellow rayon fringe. Single thickness reads correctly on one side only. Double thickness reads correctly on both sides. We will completely design your flag provided motif or school insignia is furnished. Price listings include flag only.

	WOOL 3x5	WOOL 4⅓x5½	TAFFETA 3x5	TAFFETA 4⅓x5½
Band flag, single thickness, fringed	27.50	35.60	47.50	63.30
Band flag, double thickness, fringed	44.00	58.30	63.30	79.00
School flag, single thickness, fringed	52.00	63.30	75.00	95.40
School flag, dbl. thickness, fringed	67.00	80.00	88.40	110.80
United States flag to match, fringed	10.20	13.70	9.70	27.20

For beautifully embroidered flags — quotations on request.

CHRISTIAN FLAG

3 x 5' Glory Gloss Christian Flag. Pole hem—sewed design. 8' x 1⅛" oak banner pole. Plain brass screw joint. 8" brass cross. 4" yellow tassels and cord. Liberty stand.

No. 555P
Complete, not fringed. Each .. 30.70

No. 555F
Complete, fringed. Each 32.20

4⅓ x 5½' Glory Gloss Christian Flag. Pole hem — sewed design. 9' x 1⅛" oak banner pole. Plain brass screw joint. 8" brass cross. 6" yellow tassels and cord. Liberty stand.

No. 565P
Complete, not fringed. Each .. 35.70

No. 565F
Complete, fringed. Each 38.60

STATE FLAGS

Authentic colors and designs—Designs sewed or painted, depending upon the intricacy of the Coat-of-Arms.

Made of genuine Bunting (extra strength). Official designs.

	3x5	4x6
Each	58.08	64.12

Silk Flags also available

SCHOOL ROOM FLAG BANNERS

Each room in every school building in the United States should display this beautiful appropriate Flag Banner on the wall.

Requires no wall bracket or fixture that defaces the wall. Displays the American Flag without a wrinkle so pupils can readily see all of the 48 stars and 13 stripes.

Teaches the children to love and respect our Flag.

Mounted on suitable crossbar with gilded ball ends and yellow cord. Remains flat against wall, showing clearly the 48 stars and 13 stripes.

Bull Dog Schoolroom Banner, 2x3' .. Plain 4.50 Fringed 6.85
Printed Rayon, 2x3' ..... Plain 4.85 Fringed 5.70

SCHOOL AND BAND FLAG ACCESSORIES

Accessories for school and band flags. For 3'x5' flag, 8'x1" oak pole with brass joint; 4" brass eagle; 4" gold tassels and cord; 1⅛" Liberty Stand genuine leather carrying belt, waterproof cover. For 4⅓ x 5½' flag, 9' x ⅜" oak pole with brass joint, 7" brass eagle; 6" gold tassels and cord, Sensible Stand genuine leather carrying belt, waterproof cover.

Price accessories (4⅓' x 5½' flag) 49.10
Price accessories (3' x 5' flag) 35.60

FLAGS AND ACCESSORIES

NYLON FLAGS

Offering these advantages over flags made from any other material.

Appearance. The most attractive flag ever created for outside use. The glow of the colors in the sunlight is beauty never before produced in an outdoor flag.

Economy. Costs less per flying hour than flags made of any other material, barring none.

Toughness. Especially adapted for outdoor use when weather conditions are severe.

Flyability. Light in weight—flies beautifully in a very light wind.

Sheds Water. Flies well during rain—better than any other material used.

Everlasting fast colors.

Fire resistant.

Mothproof and mildewproof.

Flag size 2x3′. Each	6.60
Flag size 3x5′	11.90
Flag size 4x6′	16.65
Flag size 5x8′	25.00
Flag size 6x10′	32.80
Flag size 8x12′. Roped Heading	59.50

WOOL BUNTING FLAGS

These flags are of fine quality pure wool bunting, fast color, all seams double stitched. Full number of stars, 48, sewed on both sides of the field.

2x3′ (wt. 5 oz.)	6.00
3x5′ (wt. 12 oz.)	11.35
4x6′ (wt. 1¼ lbs.)	16.65
5x8′ (wt. 1¾ lbs.)	25.00
6x10′ (wt. 2¼ lbs.)	37.50
8x12′ (wt. 3½ lbs.)	56.00

COTTON BUNTING FLAGS

Moth Proof

This is a long-wearing flag. Flags are made of cotton bunting, but are entirely unlike ordinary cotton flags.

Sewed throughout and finished in first class manner. All seams are double stitched, and full number of stars is sewed on both sides of the field.

3x5′ (wt. 12 oz.)	4.80
4x6′ (wt. 1¼ lbs.)	7.20
5x8′ (wt. 1¾ lbs.)	10.50
6x10′ (wt. 2½ lbs.)	15.00
8x12′ (wt. 3¼ lbs.)	22.20

PRINTED U. S. RAYON FLAGS

PRINTED U. S. RAYON FLAGS

These flags are made from heavy quality and are printed with fast color dyes. Mounted on black staff, with gilt spear top.

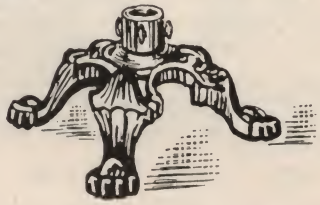
Inches	Each	Dozen
12x18	1.16	11.60
16x24	2.38	23.80
24x36	4.51	45.10

PRINTED COTTON FLAGS

Moth-proof, printed on soft finished cotton (not muslin), in fast colors. Mounted on smooth white wood staffs, with gilt spear head. Flags are nicely hemmed and wave prettily, resembling bunting, and for decorative or marching purposes they are far superior to anything at as low a price.

No. 12. 4x6″ Dozen	1.20
No. 18. 12x18″. Dozen	3.35
No. 24. 24x36″. Dozen	11.00

FLAG POLE FLOOR STAND



No. 11DD. Gilded iron stand for staffs from ½″ to 1″. Weight 6½ lbs. Each 5.00

SPEAR TOPS

Hollow brass spear top, same as is furnished on silk flag outfits.

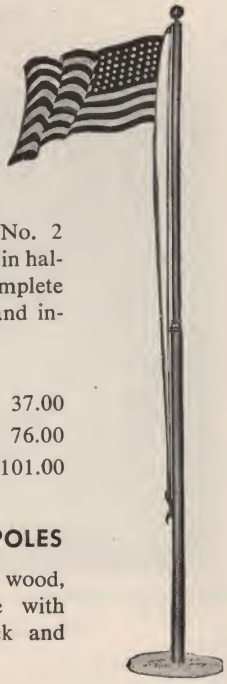
No. 2G. 7″ long, wt. 2½ oz. Each	2.00
No. 1G. 4″ long. Each	2.00

ADJUSTABLE POLE HOLDER

This flag pole holder is particularly made for flags with small diameter staff. Flag staff socket will accommodate staffs ½″ to ⅞″ diameter. Holder has thumb screw adjustments for various staff angles.

Each 1.05

STEEL FLAG STAFF



Made of galvanized steel pipe, telescoped joint with a 6″ cast ball and a non-chain-jamming pulley. Each staff equipped with halyard cleat and proper length of No. 2 galvanized steel chain halyard. Each staff complete ready to assemble and install.

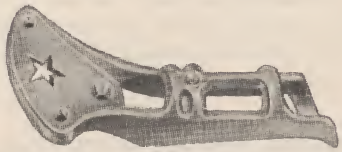
20′ flag staff	37.00
30′ flag staff	76.00
40′ flag staff	101.00

WOOD FLAG POLES

Varnished poplar wood, tapered. Complete with wooden ball, truck and halyards.

8′ flag staff—1¼″ diameter	3.10
10′ flag staff—1½″ diameter	3.50
12′ flag staff—1½″ diameter	4.20
14′ flag staff—1¾″ diameter	9.00

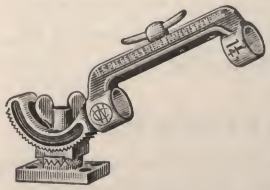
NON-ADJUSTABLE FLAG POLE HOLDERS



These holders are for use when flag pole is to be extended from window sill or from casing above door.

	Each
No. 28. Staff ½″, for pole 2-4′	.25
No. 30. Staff ¾″, for pole 6′	.30
No. 31. Staff 1″, for pole 7′	.50
No. 32. Staff 1¼″, for pole 8′	.85
No. 33. Staff 1½″, for pole 10-12′	1.00
No. 34. Staff 2″, for pole 14′	2.40

ADJUSTABLE POLE HOLDERS



A heavy duty galvanized iron flag pole holder with thumb screw adjustments for various staff angles. It can be mounted on either a vertical or a horizontal surface. Holder has cleat for securing flag halyard.

No. 305. 1½″	5.80
No. 307. 1¼″	5.25

SCHOOL SERVICE JANITOR'S SUPPLIES

Your floors must be protected against permanent damage of moisture, strong caustics and chemicals and continual grinding of heavy feet. We offer a special treatment for every floor problem, and our representative will be glad to demonstrate.

SCHOOL SERVICE SELF POLISHING LIQUID WAX

A self polishing floor wax, made from the hardest carnauba wax, has excellent penetrating and adhesive qualities. For lasting beauty on any floor, this product is unsurpassed. It produces a lustre that is water and slip resistant. Has excellent wearing qualities, and may be used to protect sealed floors or as a complete floor treatment. Dries in 20 minutes. Recommended for all linoleum, mastic, tile and rubber floors, and after sealing on terrazzo, hardwood, painted or varnished surfaces.

No. 0901. 1 gal. 2.90 5 gal. 13.50

SCHOOL SERVICE WOOD SEAL

A mopping varnish for new or old wood floors, easily applied with mop or applicator. It is a combination penetrating and surface finish for beautifying and reducing maintenance costs on wood floors. Its treated vegetable oils, varnish gums and solvents penetrate well into the pores and leave a brilliant and long wearing surface film.

No. 2507. 1 gal. 4.20 5 gal. 20.00

DANCE FLOOR WAX

Swingo powdered dance floor wax is ideal for dancing but not dangerously slippery. Free from lumps and dust, this wax comes in shaker top cans for easy application. The dancers' feet polish the floor.

No. 714. 1 lb. can .55 dozen. 5.50

SCHOOL SERVICE ALL PURPOSE CLEANER

This is a new type revolutionary cleaner, and is not just an ordinary soap, but a neutral cleaner which combines in one operation, cleaning, polishing and preserving. It is absolutely HARMLESS to any surface that water will not harm and is completely and instantly soluble in water. LEAVES A LUSTRE-LIKE SURFACE which protects flooring from wear. Completely wax free. It retains its efficiency in even the hardest of waters . . . may be used satisfactorily in hot or cold water. Will not streak or stain. Leaves no objectionable odors.

2 to 4 ounces is all that is necessary for the average cleaning job. School Service All-Purpose Cleaner is perfectly neutral and suited for every type of cleaning. Leaves a clean luster on linoleum, wood, marble, terrazzo, painted or varnished surfaces. Try it, and you will never go back to an ordinary scrub soap again.

No. 1103. 1 gal... 2.20 5 gal. . 10.00

SCHOOL SERVICE FLOOR MAINTAINER

Here's a product that will cut labor and maintenance costs on wood floors that have been sealed with penetrating seals, and will keep your floors looking bright and new through the whole school year. When your floors begin to look dirty and worn, give them a quick treatment with Penacon and you will be amazed at the result. Quickly applied with an ordinary sheep's wool applicator, it will not only clean the floor, but will give it protective coating that will last a long time. Try this product, we know it will please you, for quick and easy maintenance of sealed floors.

No. 2501. 1 gal... 2.60 5 gal... 12.00

SCHOOL SERVICE PENETRATING SEAL

The one ideal floor finish for floors subjected to hard traffic. For best results it should be applied with a steel wool machine, but, if this machine is not available, an excellent finish can be obtained if the seal is applied with an applicator and also if such seal is squeegied off. Penetrates deep into the wood and leaves it completely sealed. It produces a protective finish in the wood where dirt and grime cannot reach, consequently, expensive scrubbing and maintenance are kept to a positive minimum. There is no surface finish to wear off, crack or deteriorate.

No. 2545. 1 gal... 3.75 5 gal... 17.50

SCHOOL SERVICE FURNITURE CREAM

A furniture cream which accomplishes two purposes at the same time—cleaning and polishing. It is a cream, non-settling emulsion. Even on surfaces unusually dirty or cloudy by soot or dirt, our furniture cream will quickly clean and polish the surface with a minimum of labor. It produces a non-marking, non-dust collecting polished brilliant finish that sheds water and prevents finger smears.

No. 1404. 1 qt. .75 gallon 2.00

SCHOOL SERVICE GYM SEAL

A superior product which combines penetrating qualities with a tough and lasting surface coat for old and new linoleum floors, or other wood floors, subjected to unusual wear. Its high bakelite resin content produces an exceptionally hard and lustrous finish but non-slippery, which meets exacting amateur and professional sports requirements. This seal is "burn proof" and is undamaged by rubber or leather friction.

No. 2502. 1 gal. 4.90 5 gal... 23.50

PINE ODOR DISINFECTANT

A new type of pine odor disinfectant which is very powerful. It has a coefficient of 5 against E. Typhi and kills the bacteria, Staph. aureus, which regular pine oil disinfectants do not touch.

It is a very efficient disinfectant which can be used in schools and public buildings to combat the ever present bacteria which are found where crowded conditions exist. Dissolves grease and grime easily, and quickly leaves a clean, sanitary surface. Leaves a delightful pine fragrance.

No. 2135. 1 gal... 2.85 5 gal. . 13.50

ATHLETES FOOT DISINFECTANT

A completely odorless disinfectant, bactericidal deodorant which has powerful germ killing properties. It is absolutely non-corrosive, and it may be used for all disinfecting purposes.

Instantly mixable in water, gives uniform dilution and is effective as a prophylactic agent in foot baths to aid in preventing the transmission of athletes foot. For this use, it is especially valuable in locker rooms, walkways, etc. 1½ ounces per gallon of water in a foot bath produces a satisfactory half minute treatment before and after taking a shower. School Service Athletes Foot Disinfectant definitely kills organisms responsible for Athletes Foot.

No. 2116. 1 gal. 3.25 5 gal... 14.50

JANITOR'S SUPPLIES

LIQUID SOAP

School Service Liquid Soaps are made in two grades, the grade (15%) ready for use, or a concentrated grade.

They are made from pure cochin cocoanut oil blended with other vegetable oils, American potash, and distilled water. Because of the unusual chemical control used in the manufacture of these soaps, we guarantee them to be absolutely uniform and to contain true solid soap content. They will not smart or burn tender skin, lather instantly, and clean very quickly. Furnished in two grades — simply different in percentage of true soap content. School Service Liquid Soap Medium 15%: This grade of liquid soap is by far the most popular percentage used by schools, colleges, hospitals. Guaranteed and certified 15% pure solid soap.

School Service Concentrated Liquid Hand Soap: School Service 30% Liquid Hand Soap is the most economical type that you can buy if it is diluted with soft or distilled water first. Diluted with equal parts of water, it will equal 15% Liquid Soap or diluted 1 gallon of soap to 2 gallons of water, it will equal a 10% Soap.

No. 1516—15%.
Per gal. 1.60 — 5 gal. can 7.50

No. 1518—30%.
Per gal. 2.30 — 5 gal. can 11.00

DRAIN PIPE CLEANER

A powerful solvent for removing obstructions in drain pipes caused by accumulation of foreign matter. It positively will not injure drain pipes or sanitary fixtures. 16 oz. cans.

No. 502. Per can .60 — Dozen 6.00

SCOURING POWDER

A finely ground, evenly graded, scouring powder. Especially suited for cleaning marble, tile, terrazzo floors as well as wash bowls, sinks and bath tubs. Packed in 16-oz. shaker cans.

Per can .25 — Dozen 2.50

CLOSET BOWL CLEANER

A special powdered bowl cleaner which cleans and deodorizes in one operation. It removes hardened substances and stains of all types from toilet bowls and other porcelain surfaces. Does not injure these surfaces or drains, and will not harden in the can.

22 oz. cans.

No. 503. Per can .33 — Dozen 3.30

OZIUM

OZIUM—the new scientific air sanitizer reduces the presence of air-borne germs and kills undesirable odors quickly and efficiently. Lessens the hazard of air-borne infection and helps prevent sickness absenteeism.

A light touch on the lever of the handy dispenser releases a fine vapor-spray which quickly permeates every corner of the area to be treated. Odors vanish like magic.

OZIUM is economical and convenient —the dispenser is light in weight, compact, unobtrusive and is easy to use. The OZIUM "pressure-packed" refills slip easily into the chrome-plated dispenser. Each room in the school should have one of these kits as part of its equipment.

De Luxe Set No. 15-024. Contains 1 chrome-plated Dispenser and 24 pressure-packed OZIUM refills—$12.50 the complete set.

Refills No. 024. Contains 24 "pressure-packed" OZIUM refills—$8.00, box of 24.

The No. 5 OZIUM Commercial Unit. OZIUM, the glycolized air sanitizer, is now available in large units for commercial use. Schools, hospitals, hotels, and industry have welcomed the new No. 5 OZIUM unit as an efficient, economical method to treat and glycol-ize the air. Gymnasiums, auditoriums, locker rooms and other large gathering places should be glycolized.

OZIUM reduces the hazard of infection from air-borne germs and dispels undesirable odors quickly and efficiently.

Each unit is equipped with an adjustable spray nozzle and is easy to operate.

Per Unit $20.00 plus $10.00 deposit charge on container.

AIRKEM AIR FRESHENER

USE ANYWHERE

A chlorophyll air freshener composed of a complex group of aromatic substances from plants and activated chlorophyll. These aromatic substances when volatilized indoors bring objectionable odors under control. The activated chlorophyll gives to the air that pleasurable outdoors effect.

One Airkem wick bottle will take care of a room approximately 10′ x 10′. Each bottle is supplied with a new wick and adjuster and are so designed that when the cap is pulled up the wick is automatically spread providing for maximum evaporation without the necessity of touching the wick itself.

Per pint bottle	1.50
Per doz. pints	16.20
1 gal. bottle	7.25
Extra Wicks. Each	.25

AIRKEM MIST

A quick means of dispelling offensive odors, Airkem Mist comes in a handy spray-container. To kill odors of tobacco smoke occupancy, food, chronic hospital and medicinal odors and odors caused by industrial and chemical processes, simply push the cap of the container forward and direct spray toward ceiling. A one or two second application will suffice for the average room; however, for larger rooms, five seconds are required. The dispenser holds enough fluid for 225 average applications.

12 oz. dispensing unit	1.79
Case of 12 dispensing units	20.40

PERFUMED DEODORANT BLOCKS

Our perfumed deodorant blocks are furnished in two different types — a 4 ounce block for urinals, and a 24 ounce block for hangup wall container. They are made from pure para-dichloro-benzene, and are pleasant, and effective. They will not crush or wash away, yet they are not brittle enough to break easily. These deodorant blocks provide a large filter of vapor which attracts and neutralizes objectionable and ammonical and other odors, caused by organic matter in rooms that are hard to ventilate. Available in two sizes; a 4 ounce perfumed deodorant cake for deodorizing urinals, packed 12 in a tube. Although primarily designed for urinals, they may also be used in wall fixtures.

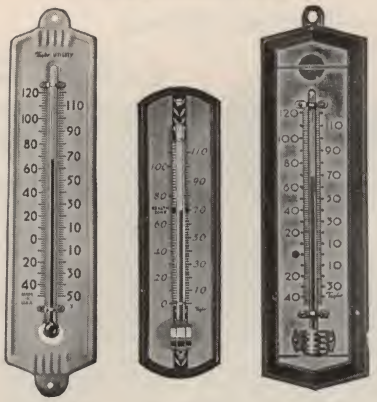
No. V4. Per tube	2.15
Per dozen tubes	21.50
Holder	1.00

24 Ounce Size

For hanging in wall containers. The most practical deodorant block for general use. Completely deodorizes toilet rooms, closets, etc. This size will fit in most standard containers, packed 6 blocks to the set, 1 set is enough for a season's requirements for one container. Per set (6 blocks) 7.00

MISCELLANEOUS SUPPLIES

THERMOMETERS



No. 5140 No. 5126 No. 5127

Indoor and Outdoor Thermometer

Magnifying lens tube with non-fading red liquid range suitable for outdoors, ivory finished scale on gray finished wood back.
No. 5140. Price, each ..... .85

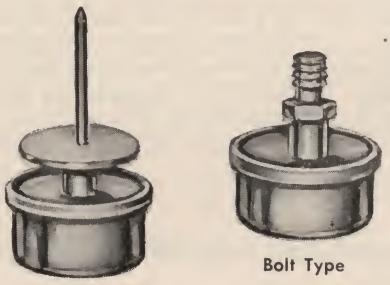
Wall Thermometer—Indoor Only

An attractive indoor wall thermometer with 6" satin finish brass scale and black figures, magnifying lens tube with non-fading red liquid, walnut finished wood back.
No. 5126. Price, each 1.50

Utility Outdoor Thermometer

A rugged wall thermometer with an easy reading 8½"x2" vitreous enamel scale. Both black figures and graduations are fired in for permanence.
No. 5127. Price, each 1.75

SELF ADJUSTING GLIDES



Nail Type Bolt Type

Ever-Level Wobble Stoppers AUTOMATICALLY compensate for warped, sagging, sloped or otherwise irregular floor surfaces, thereby eliminating the wobble created by such conditions.

They operate hydraulically, utilizing silicone "bouncing" putty for their action. By AUTOMATIC expansion or contraction they adjust to the floor surface. They readjust after object has been moved.

Operation of glide is unaffected by wide temperature or humidity variations. Can be used on products with any number of bearing points.

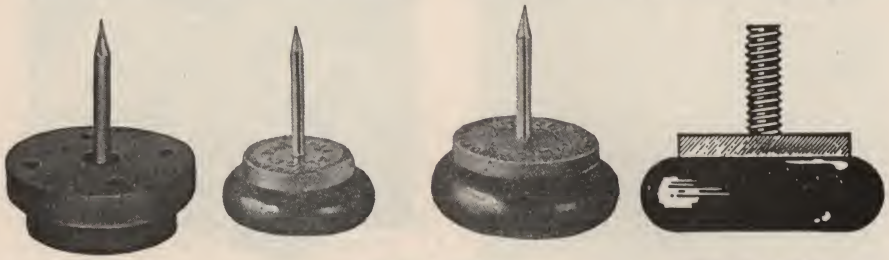
Levelmatics are made in nail and screw studs for easy installation in either wood or metal.

¾" Nail Type.	Per set of 4	1.00
	Per dozen sets	10.00
¾" Bolt Type.	Per set of 4	1.20
	Per dozen sets	12.00

DARNELL NOISELESS GLIDES

The Darnell perfect Noiseless Glide absorbs the noise on hard floorings, adds years to the life of floors, floor coverings and furniture.

The flexible construction of the Darnell perfect Noiseless Glide permits the chair to be tilted while the Glide remains flat on the floor. This prevents pitting and denting of floors and floor coverings.



Rubber Type N2R - N3R Nail Type—Metal N1S - N2S Bolt Type—Metal L2S

RUBBER GLIDES

Nail Type for Wood Legs

	Set of 4	Doz. Sets
N3R. $\frac{15}{16}$" diameter	.32	3.20
N2R. ¾" diameter	.27	2.70

METAL GLIDES

Nail Type for Wood Legs

	Set of 4	Doz. Sets
N1S. ⅞" diameter	.45	4.50
N2S. $1\frac{1}{16}$" diameter	.53	5.30

Bolt Type for Metal Legs

L2S. $1\frac{1}{16}$" diameter	.53	5.30

RUBBER FEET FOR AMERICAN SEATING COMPANY FURNITURE

Put new Rubber Feet on your American Seating Company furniture! A tough, long-wearing product offered to enable you to put noiseless feet on American furniture, and to replace worn tips on older equipment. Conserves time, money by preserving the smooth finish of your floor.

Feet for American Seating Co. Metal Folding Chair.
Set of 4 ..... .50

Feet for Universal Desks or Metal Standard Universal Tables.
Set of 4 ..... .50

CRUTCH TIPS

This rubber tip fits over the end of the chair leg, and the inside ribs prevent its coming off. Very durable — reinforced where the wear is heaviest.

No. 17.	⅝" chair leg. Per doz	.54
No. 18.	¾" chair leg. Per doz	.68
No. 19.	⅞" chair leg. Per doz	.82
No. 20.	1" chair leg. Per doz	.92
No. 21.	1⅛" chair leg. Per doz	1.05

UTILITY CHAIR GLIDES

These are little discs of highly polished hardened nickel steel. Furniture fitted with them slides easily and leaves absolutely no marks on carpet or hardwood floor.

Made in sizes ⅜, ½, ⅝, and ¾ inches.

Per set of four, any size	.10
Per dozen sets	1.00

RUBBER CHAIR TIPS

These tips do much to make silent rooms. Easily attached to the chair, and remain permanent.

No. 10.	¾" diameter. Dozen	.53
No. 10.	1" diameter. Dozen	.95

RECESS BUMPERS

A very satisfactory chair tip made of pure rubber. Complete with screws for attaching to chairs. Excellent for tables.

No. 757R.	¾" diameter Doz.	.31
No. 115R.	⅞" diameter Doz.	.34

FIRST AID KITS

UNIT ASSORTMENT F

Unit No.	Quantity	
100AW	3	1" Waterproof adhesive compresses (16 per unit)
101A	1	Tan-A-Burn (Burn treatment) (six ⅛ oz. tubes per unit)
104A	2	Ammonia inhalants (10 per unit)
103A	2	Iodine applicators, 10cc. (3 per unit)
106A	1	Eye dressing packet (3 per unit)
107A	1	4" x 6 yards gauze bandage (1 per unit)
108A	3	2" Bandage compress (4 per unit)
109A	1	4" Bandage compress (1 per unit)
121A	1	3" Bandage compress (2 per unit)
110A	1	Ammonia, aromatic spirits, 2 cc. ampoules with drinking cups (4 per unit)
115A	2	40" Triangular bandage (1 per unit)
122A	2	Absorbent gauze compress (4 per unit)
116A	2	Wire splint (1 per unit)
120AA	1	Army tourniquet, forcep and scissors

Kit No. 600 F. Assortment F, 24 Unit Kit 18.50

UNIT ASSORTMENT G

Unit No.	Quantity	
100AW	5	1" Waterproof adhesive compresses (16 per unit)
101A	2	Tan-A-Burn (Burn treatment) (six ⅛ oz. tubes per unit)
101AB	1	Borated petroleum (Burn ointment) (six ⅛ oz. tubes per unit)
104A	2	Ammonia inhalants (10 per unit)
105A	3	Iodine Swab (10 per unit)
122A	3	Absorbent gauze compress (4 per unit)
107A	2	4" x 6 yards gauze bandage (1 per unit)
108A	4	2" Bandage compress (4 per unit)
109A	4	4" Bandage compress (1 per unit)
110A	2	Ammonia, aromatic spirits, 2 cc. ampoules with drinking cups (4 per unit)
115A	4	40" Triangular bandage (1 per unit)
116A	2	Wire splint (1 per unit)
111AA	1	Army tourniquet and forcep

Kit No. 650G. Assortment G, 36 Unit Kit 25.00

ADHESIVE COMPRESSES

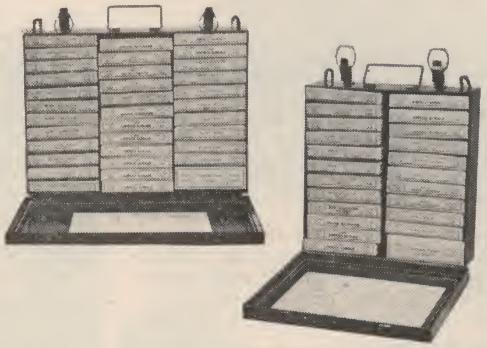
No. 100A. 1 inch tape, 16 per unit
Plain compresses ..... .30
Mercurochrome compresses ..... .30

No. 100 AW. Wet proof, 16 per unit
Plain compresses ..... .30
Mercurochrome compresses ..... .30

No. 100AM. 1" x 3", 16 per unit
Adhesive elastic compresses ..... .60

No. 125A. ½" x 2½ yards, two per unit
Adhesive tape ..... .40

No. 163AA. 1" x 2½ yards, two per unit
Adhesive tape ..... .60



Each dressing is complete in itself, containing just sufficient material for treating the single injury. This eliminates waste. All antiseptic liquids are available in individual cotton tipped sanitary swabs. These are sealed in individual crushable glass ampoules, encased in a flexible moisture proof sleeve. Deterioration of these preparations is thus prevented and there are no bottles to spill or break.

This unit system permits ordering and keeping on hand an inventory of the individual refill units.

The 20 gauge steel, completely gas-welded container provides a complete seal on all sides. When the cover lid is closed, it is drawn into place by two spring tension jack locks, putting pressure on a solid rubber gasket sealed on the inner side of the lid, making a dust and moisture proof seal.

A piano hinge on the back of the cover permits the kit to be opened to a 90 degree angle. When the kit is hung on the wall, this arrangement permits the case cover to function as a convenient ample-sized work shelf. A quick guide to first aid is affixed to the inside of the cover, listing injuries, symptoms, and approved emergency methods, in a handy illustrated form.

SCHOOL BUS KIT

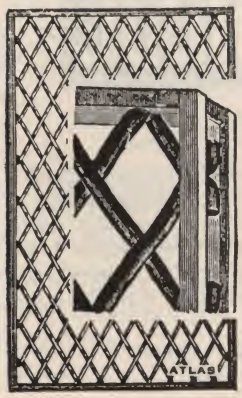
A flexible assortment of standardized unit packages of medications, dressings and equipments, this kit meets the Interstate Commerce Commission, Bureau of Motor Carriers Safety Regulations.

Unit No.	Quantity	
109A	1	4" Bandage compress (1 per unit)
108A	1	2" Bandage compress (4 per unit)
100AW	2	1" Adhesive compress (16 per unit)
115A	1	Triangular bandage (1 per unit)
101A	1	Tan-A-Burn (6 ⅛-oz. tubes per unit)
104A	1	Ammonia inhalants (10 per unit)
105A	1	Iodine applicators swab type (½cc., 10 per unit)
116A	1	Wire splint (1 per unit)
111AA	1	Tourniquet and forceps (1 each per unit)

I.C.C. Kit 9.50

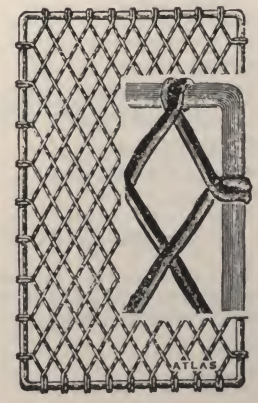
WINDOW GUARDS

Eliminate Playground Damage — Reduce Illegal Entry



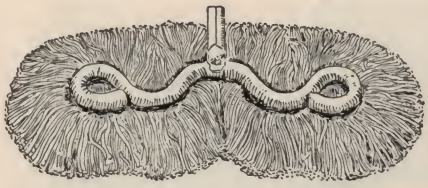
All School Windows adjacent to playground areas should have sturdy wire window guards to eliminate window breakage. The number 20 round frame guard is usually furnished with staples for fastening directly to wood window frames. This furnishes a permanent non-removable installation. If desired, strap hinges and hasp can be furnished for ready access to the window. The Number 21 Channel Frame Guard is usually furnished with wood screws for permanent installation or can be secured with butt hinges and hinge hasp. All guards have black finish.

Our representative will call at your request and furnish a quotation on your window guard requirements.



SCHOOL JANITOR SUPPLIES

ZIG ZAG GIANT MOP



A "three-in-one" article, usable as mop, brush or broom. Has three times the spread of an ordinary mop. Made of high grade yarn, with long, hard maple handle. Removable, chemically-treated, washable head.

Simple in construction, sure in operation. Nothing to get out of order. Long lasting. At one-third the cost of a good brush. 26" spread. With handle.

No. 66 ..... 2.50

YARN FLOOR BRUSH

Made of mop yarn attached to regular floor brush block. Yarn is of the best quality soft, white, long staple cotton. Contains three or four times as much yarn as the ordinary yarn floor brush. The mop can be easily removed for washing and replacement. Yarn 5½" long. Equipped with 5' handles.

Size 16". Each 3.40
Size 18". Each 3.50
Size 24". Each 5.10

REFILLS (Mops Only)

16" 1.95
18" 2.00
24" (2-12" Mops) 2.90

LION MOP HEAD

Made of 16 ply long staple white cotton yarn, evenly spun. Wears well and absorbs freely.

These mops are all made with a wide 4" band and sewed six times through the head, which prevents the threads from pulling out and the mop holder from cutting the strands.

No. 16. 16 oz. Each ..... .90
No. 20. 20 oz. Each 1.15
No. 24. 24 oz. Each 1.35

CHEMICAL DUST CLOTHS

For automobiles, furniture, floors and other fine finishes. Leaves no oily film. Cannot harm surface.

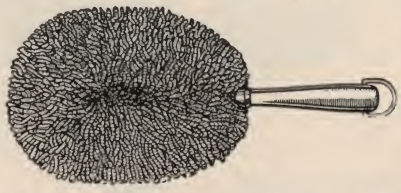
Each ..... .30
Dozen 3.00

MITTEN DUSTERS

Fits on hand like a glove. Made of soft fluffy yarn, easily washed. Packed in individual envelopes. Large size.

No. 1315. Each ..... .80

YARN HAND DUSTERS



Made of chemically treated yarn. Extra heavy, for schools, public buildings, etc. Duster 11" long x 8" wide. Enameled handle 7" long with metal ring in the end.

No. 1256. Each ..... .95

DUST CLOTH

Five separate pieces of soft, snow white cheese cloth.

Packed the new way, with no bother cutting. Each piece one yard—laid flat in box. Not to be confused with the ordinary paper wrapped packages. The buyer has a handy container for holding unused pieces —keeping them clean.

Price, package ..... .60

CORN BROOMS

Exceptionally sturdy and well made, combining high quality and moderate price. Fine selected corn with hardwood handle.

Each 2.50
Dozen 25.00

CELLULOSE SPONGE

Cellulose sponge is strong and remarkably durable, yet soft and pliable when wet. It floats—can be sterilized by boiling—holds 20 times its weight in water.

Recommended for blackboards and all kinds of general cleaning.

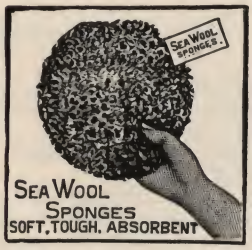
	Each	Doz.
No. 4. 3⅛"x4⅝"x1¼"	.20	2.00
No. 6. 3½"x5¼"x1⅝"	.35	3.50
No. 8. 8⅞"x6¼"x2"	.70	7.00
No. 10. 4⅝"x6½"x2½"	1.00	10.00

CHAMOIS

A heavy weight absorbent, fine quality chamois. Excellent for polishing and cleaning.

No. F14. Size 14x24". Each 2.60
No. F12. Size 16x27". Each 3.40
No. F10. Size 18x31". Each 4.05

SPONGES



High grade unbleached sponges for blackboard, automobile and general cleansing purposes.

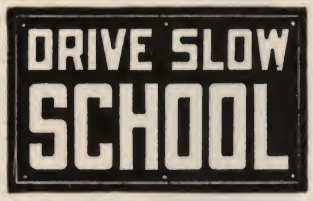
No. CC50. Medium ... .75
No. CC75. Large 1.35
No. CC100. Extra large 2.10

LAMBS WOOL APPLICATORS

Our applicators provide a quick and convenient method for application of wax or seals. The removable head can be easily washed or replaced. The changeable sheepskin pads are amply cut from thoroughly cured Australian type sheep pelts and if properly cared for will give extremely long wear. Makes floors more beautiful . . . makes materials go further.

12" size. Each 1.75

SCHOOL TRAFFIC SIGNS



A SAFETY FACTOR
A COMMUNITY BENEFIT

Traffic signs for schools are necessary for the safety of the pupils and appreciated by the motorist. The signs have raised black letters and border on Federal yellow background, enameled on heavy rust-proof steel, holes for mounting. Attractive and serviceable.

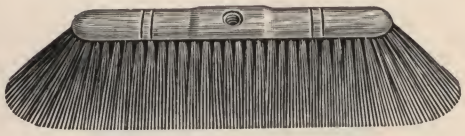
"Drive Slow SCHOOL." 12x18" 3.35
"SCHOOL ZONE." 18x18" 3.75

FLOOR AND UTILITY BRUSHES

FLOOR BRUSHES

"SUPER X." Filled with a mixture of genuine grey and black Chinese bristle and extra quality grey horsehair, well filled, trimmed 3½", cement set. A high quality bristle brush in every respect for all sweeping purposes. With handle.

12", each	10.90
14", each	12.55
16", each	13.50
18", each	14.85
24", each	18.95
30", each	24.30
36", each	28.80
42", each	34.10



No. 20. Filled with black Tampico in the center and mixed black horsehair in the casing or outside row, well filled, trimmed 3". The all around general purpose low priced brush, for offices, etc. With handle.

12", each	3.25
14", each	3.50
16", each	3.95
18", each	4.30
24", each	5.70
30", each	7.55
36", each	9.10
42", each	12.30

DECK SCRUB BRUSHES

Stiff strong fibre trimmed 2-inch hardwood block with two handle holes.

No. 192. 10", each	.90
Handles, extra, each	.30

RADIATOR BRUSHES

Thin hardwood handles. Made of stiff black horsehair trimmed 1¾". 24" long overall, brush part 6½" long. Sanded finish. Staple set.

No. 122	.60

FLOOR BRUSHES

DOUBLE DUTY SCHOOL SERVICE

For ordinary class room dust and dirt. Made of two kinds of high grade fibre (5¼" trim). Two center rows are heavy Bassine fibre to handle rough dirt. Two outside rows are finer union fibre to control dust.

No. 421. 14"	4.65
No. 423. 18"	5.35
No. 426. 24"	6.45

SMOOTH SCHOOL SERVICE

For office floors. Tufts of high grade black horsehair and black patent fibre (3¼" trim)

No. 141. 14"	5.70
No. 143. 18"	6.60
No. 146. 24"	7.90

HEAVY DUTY SCHOOL SERVICE

For rough inside-outside work. Tufts of highest grade bassine fibre (5¼" trim) unharmed by grease, oil or water.

No. 411. 14"	4.05
No. 413. 18"	4.65
No. 416. 24"	5.55

WIRE CENTER SCHOOL SERVICE

For greasy, gummy floors. Center row of tufts are spring steel wire, outside rows high grade black horsehair and black tampico fibre mixture. (3¼" trim).

No. 171. 14"	6.25
No. 173. 18"	7.30
No. 176. 24"	8.95

TURKEY FEATHER DUSTERS

Tail and wing feathers, duster part 14" long, 26" long overall. 150 feathers per duster. Detachable handles. Each duster in an individual wrapper.

No. 1420	1.60

COUNTER BRUSHES

8" Brush part, all hair, natural block, 2" trim

No. 200	1.15

TOILET BOWL BRUSHES

Made of best pure Palmetto fibre, wire wound on solid hardwood handles. Handles finished in natural lacquer, with metal ring in the end. Brush part 3½" diameter by 4½" long. 16" long overall. Very popular for all around utility use.

No. 6	.70

WINDOW BRUSHES

Made of best black horsehair, extra full, staple set. Block 8x2½". Hardwood Persimmon block, natural lacquer finish. Two tapered handle holes. Trim 2½".

No. 2	2.40
8' Handle for above	.60

VENETIAN BLIND DUSTERS

Made of soft grey or black horsehair, twisted in wire, two fingers. Each brush 2" diameter by 4½" long. 12" long overall. Hardwood handle, green lacquer finish with metal ring in the end.

No. 2G	.75

IDEAL WINDOW RUBBER

Heavy steel frame window squeegees with two high quality rubbers. The frame is tinned, non-rust steel with a green enameled steel handle. Brass screws. "Tops" in the steel cleaner field. Packed one per box.

No. 409. 14" wide. Each	1.40
No. 409. 16" wide. Each	1.60
No. 409. 18" wide. Each	1.70
Refills available. Each	.45

FLOOR MATS

RUBBERLIKE

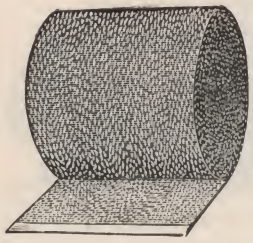
LOOKS LIKE RUBBER

The Runner that is Skid-proof. Water - proof. Hugs any floor; resists terrific punishment; lies flat, stays flat, extra resilient; speeds and quiets traffic.

For office traffic lanes, hospitals and schools, locker rooms, swimming pools, restaurant floors.

36″ wide. Packed 25 sq. yds. to the roll. Per roll 11.25
1-5 yards. Yd. ..... .65
6-24 yards. Yd. ..... .50

COCOA MATTING



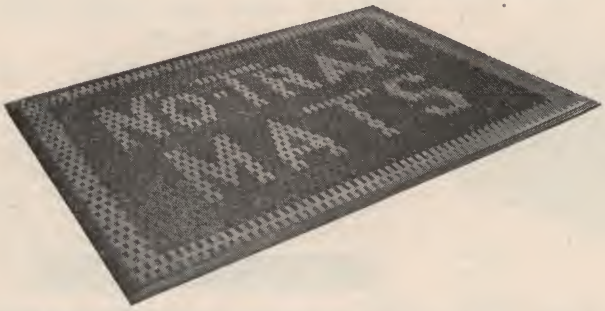
A substantial saving in floor maintenance costs can be realized by placing a length of cocoa matting on the floor just inside the entrances of the building.

If the persons entering the building are required to take several steps on this cocoa matting after entering the building, most of the dirt and moisture carried in from outside is wiped off on the matting rather than on the floors of the building.

The required lengths should be ordered for each entrance so that the nosing or binding on the ends can be attached at the factory. Full roll 50 yards.

Width	Per Yard	Rubber End	Webbing End
18″	1.25	1.25 each	.45 each
27″	1.75	1.90 each	.65 each
36″	2.35	2.50 each	.85 each
45″	2.90	3.10 each	1.05 each
54″	3.50	3.75 each	1.25 each
72″	4.65	5.00 each	1.70 each

NO-TRAX RUBBER MATS



Heavy-duty No-Trax all rubber link mats afford safe, sure footing under all conditions. The sure-grip treads hug the floor, holding the mat in place while tapered edges prevent tripping. Shoes are cleaned as they pass over the mat in normal walking. Rust-resistant spring steel and rubber construction throughout make these mats indestructible by weather. Available in jet black, tile red, green or white, made to any size desired. Names built in at slight additional charge.

Solid black, per sq. foot 1.60
Solid red or combination of black and red 1.75
Solid white or combination of black or red and white 2.05
Solid green or combination of black, red or white and green 2.25
Square or tapered nosing, black only attached. Lineal ft. ..... .55
Letters or numerals in black, red, white or green. Each 1.05

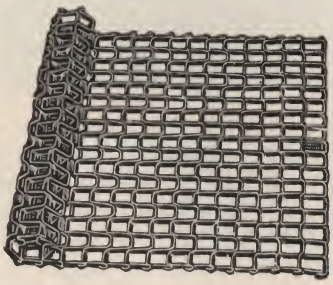
COCOA DOOR MATS

There are many inferior grades of cocoa door mats which prove unsatisfactory in use. Ours are guaranteed and of the finest quality. Made of high quality materials, and will stand up under the hard wear that school children are bound to give them.

No. M-1. 14″x24″ 2.50
No. M-3. 18″x30″ 4.00
No. M-5. 22″x36″ 5.90
No. M-9. 30″x48″ 10.85

Other sizes and prices on request

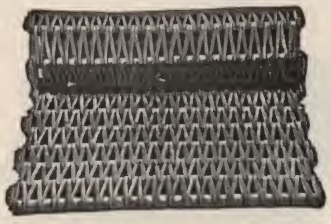
FLEXIBLE STEEL MATS



No. 12. 18″x30″ 2.25
No. 13. 22″x36″ 3.20
No. 14. 24″x42″ 3.85
No. 15. 30″x48″ 5.60

Write for prices on other sizes

RUBBER LINK MAT



Our special linking process now makes it possible to make a mat any width or length. Strung on spring steel wire. Solid rubber nosing can be supplied for ends or edges. Ends of wires welded by special process assuring permanency. Truly the superior mat.

Individual mats made in sizes up to 5′ wide and 10′ long. Linked together, any size can be supplied.

No. 0. 14″x23½″ 1.90
No. 1. 16″x28½″ 2.60
No. 2. 18″x33½″ 3.05
No. 3. 21″x38½″ 4.60
No. 4. 24″x43½″ 6.10
Custom made Mats. Sq. ft. 1.10
Nosing around edges. Lineal ft. ..... .85

WASTE CONTAINERS

PICK-UP TRUCKS AND BASKETS

No. 48-J

Its extra sturdiness adapts it to the hardest work.

It wears many years.

Smooth, Lane-woven duck, no splinters. nails or jagged metal. No torn hands or clothing.

No litter sifts through to floor. Stationary Frame Casters are regular equipment. Can be furnished at additional cost with swivel frame. Small sizes in brown duck are suitable for school rooms and offices.

Style 48J. On Stationary Rubber Casters (illustrated above), white duck.

No. 6.	30"x20"x20½" deep	36.41
No. 8.	34"x22"x23" deep	44.95
No. 10.	36"x24"x25" deep	47.74
No. 12	36"x26"x27½" deep	50.06
No. 14.	40"x28"x27½" deep	62.40
No. 16.	40"x28"x30" deep	63.58

Can also be supplied with steel wheels at $3.00 per basket less

Small additional charge for swivel casters

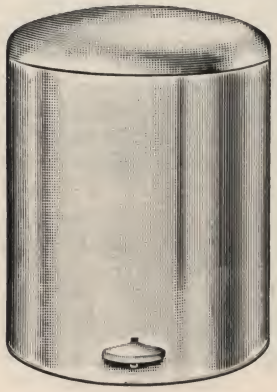
Style 45J. On Skids only—White Duck.

No. 4.	28"x20"x16" deep	21.25
No. 6.	30"x20"x20½" deep	24.00
No. 8.	34"x22"x23" deep	31.15
No. 10.	36"x24"x25" deep	33.83
No. 12.	36"x26"x27½" deep	36.90

Style 41J. Square Shape on Skids—Brown Duck.

No. 4.	19"x19"x24" deep	20.00
No. 5.	21"x21"x24" deep	21.16
No. 6.	21"x21"x28" deep	22.66
No. 8.	23"x23"x32" deep	27.33

STEP-ON CONTAINERS



A high-quality, sanitary receptacle, low-priced, steel foot pedal operates cover. Ideal for physicians' and dentists' offices. Galvanized inner pail. Furnished in hard white baked enamel.

No.	Height	Diameter	Price
2248	16"	11½"	3.40

METAL WASTE BASKETS

These Paneled Waste Baskets are sturdily constructed of steel to withstand the service given them in schools and offices. Their artistic design and attractive finish is enhanced by the embossed panel sides that add to beauty as well as to strength.

A large roll top makes the basket easy to handle . . . all edges are smooth to protect floors and furniture. Bottoms are raised 1" from floor to comply with Underwriters' requirements. Furnished in Green, Oak and Walnut.

GREEN

No. 11.	12" high, 11" dia. top	1.40
No. 12.	14" high, 13" dia. top	1.80

OAK or WALNUT

No. 11.	12" high, 11" dia. top	2.15
No. 12.	14" high, 13" dia. top	2.70

SQUARE WASTE BASKETS

No. 2900 basket furnished in exact imitations of perfect oak, walnut and mahogany wood panels. Also in olive green and gray. Continuous rubber bumper around top. Easy-slide rounded feet. 15" high, 13¼" top, 10¼" bottom.

Wood Grained. Each	3.35
Grey or Green. Each	3.00

FIBRE BASKET

DIAMOND FIBRE BASKETS

No.	Top	Bottom	Ht.	Price
D-2	12"	10"	14"	2.50
D-9	14"	14"	21"	5.00
D-10	14"	14"	31"	6.10

SELF-CLOSING CONTAINERS

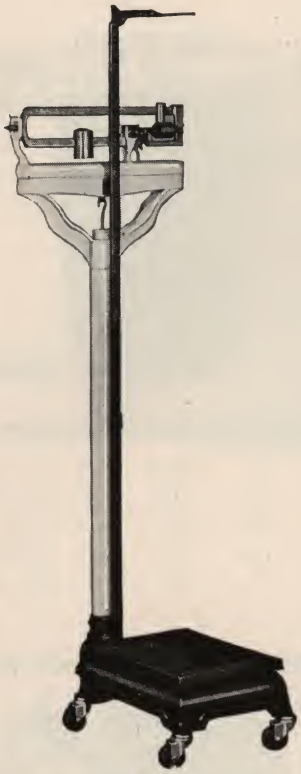
Built with channel top, artistically designed to insure rigidity. Rubber corners, and rubber feet, securely attached, will protect floors and eliminate noise. Steel construction throughout, with air space between bottom of basket and floor, insures fire protection.

Finished in rust retarding undercoat, with electrically baked enamel finish, these containers are sufficiently attractive to be placed in any setting.

The newly designed self closing cover is fool proof, responds to the slightest touch.

		Green Mahogany Walnut Oak	Gray White
No. 526.	34"x14"x14"	14.00	14.75
No. 526.	No Cover	7.50	8.00
No. 530.	38"x14"x14"	14.75	15.50
No. 530.	No Cover	8.25	8.75
No. 538.	40"x18"x18"	18.00	18.75
No. 538.	No Cover	10.00	10.50

SCHOOL SCALES



The preferred scale for Schoolroom use. Measuring rod with large flat headpiece permits measuring a child accurately regardless of his position on the platform, making it possible to measure a large number of pupils in the shortest time.

Mounted on rubber tired casters, the scale can easily and safely be moved from room to room.

COLOR: Standard finish oven-baked white enamel (most practical for schoolroom).

CAPACITY: 300 lbs. by ¼ lb. Upper bar 50 lbs. by ¼ lb. Lower bar 250 lbs. by 50 lbs.

Special measuring rod 39 to 78 inches.

SIZE: Platform 10½x14 inches. Space required 11x22 inches. Height overall 50 inches.

WEIGHT: Net weight 46 pounds. Shipping weight 82 lbs

No. 225. With measuring rod, without casters 64.00

No. 229. With measuring rod, with casters.. 70.00

HEALTH-O-METER SCALE

Dial cap chromium plated, base is baked enamel. Hardened steel pivots and bearings guarantee precision performance. Rotating dial has a capacity of 250 pounds graduated by one pound. Overall size 13¼"x10", platform 2⅝" high, shipping weight 11 lbs.

Model No. 187. Each..... 7.95

SCHOOL CLOCKS

SETH THOMAS CLOCK

Self starting Electric Clock with black hour and minute hands and red second hand. Overall diameter 15". Dial 12½".

No. 12A. Chrome Finish..... 16.95

GENERAL ELECTRIC DE LUXE SCHOOL CLOCK

14½" diameter with 12" dial. Brown crinkle finish metal case. Black numerals and hands. Red second hand. Fully guaranteed. For inside use only.

Price, each..... 13.00

ELECTRIC DESK CLOCKS

4½" wide, 4¾" high, 3½" dial. Mahogany colored wood case. Self starting electric time movement.

No. 454W. Each..... 6.85

SMALL WALL HANGING ELECTRIC CLOCKS

7" wide, 7½" high, 5" square dial. White molded plastic case. Self starting electric movement with a bottom hand set.

No. 386W. Each..... 4.95

WALL HUNG MIRRORS

First quality Plate Glass Mirrors with Stainless Steel Frame (¾" Radius Corners). Galvanized Steel Back 20 gauge. Arranged for Vertical or Horizontal mounting. Theft Proof Hanging device guards against theft. Anchor Bolts not furnished.

No. 5092. 14"x20"..... 10.00

No. 5093. 16"x24"..... 13.10

BUFFALO (BETTER BUILT) FIRE EXTINGUISHERS

Soda-Acid Extinguisher – 2½ gallon, an unexcelled general purpose extinguisher. Quality workmanship and highest grade materials throughout, assures years of dependable service. Body of stainless steel, lead covered cast, brass acid bottle holder, solid brass screwed fittings for hose, plus many other features. Furnished with standard hanging hooks, suitable for wood, paper, cloth, rubbish, etc. fires.

Price..... 26.50

Recharges..... .60

FOAM EXTINGUISHER

This type fire extinguisher is specifically recommended for use where there is the possibility of oil, gasoline, paint or varnish fires. Works equally well on rubbish, wood, paper and cloth fires. Body of stainless steel using quality workmanship for years of dependable service. Is operated in the same manner as soda and acid type.

Each..... 26.00

Recharges..... 1.25

VL HAND EXTINGUISHERS

These hardy, swift action foolproof extinguishers for unlimited applications. A few quick strokes of the pump and fire is smothered with a gas forming liquid. May be kept in any position. Will not freeze at 40° below zero. Furnished with standard wall bracket. Suitable for all fires. Polished brass.

1 qt. size..... 13.25

1½ qt. size..... 15.50

Recharges, 1 qt. 1.30

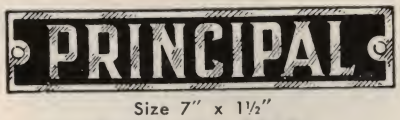
Recharges, 1 gal. 4.75

METAL SCHOOL SIGNS

Size 2½" x 11"
BLACK ON WHITE
Price .70 each

These attractive, legible signs are needed in schools and public buildings. Raised black letters on white background. Enamel finish or brass with black enamel finish.

(*) Starred items black and white only.



Size 7" x 1½"
BLACK ON BRASS
Price .75 each

*1ST GRADE
*2ND GRADE
*3RD GRADE
*4TH GRADE
*5TH GRADE
*6TH GRADE
*7TH GRADE
*8TH GRADE
*1ST-2ND GRADES
2ND-3RD GRADES
*3RD-4TH GRADES
4TH-5TH GRADES
*5TH-6TH GRADES
6TH-7TH GRADES
*7TH-8TH GRADES
1ST-2ND-3RD GRADES
3RD-4TH-5TH GRADES
4TH-5TH-6TH GRADES
6TH-7TH-8TH GRADES
ROOM A
ROOM B
ROOM C
ROOM D
ROOM E
ROOM F
ROOM G
ROOM H
ACTIVITY ROOM
*AGRICULTURE
ALGEBRA
ALUMNI OFFICE
ARITHMETIC
*ART
ART METAL
ART ROOM
ART SUPERVISOR
*ASSEMBLY ROOM
ASSEMBLY
ATHLETICS
ATTENDANCE
*AUDITORIUM
AUDITORIUM-BALCONY
AUTO MECHANICS
*BALCONY
BAND
BASAL MET. ROOM
*BIOLOGY
*BOARD OF EDUCATION
*BOILER ROOM
BOILER ROOMS
BOOK ROOM
BOOK STORE
*BOOKKEEPING ROOM
BOTANY
*BOYS
BOYS →
← BOYS
BOYS' CLOAK ROOM
BOYS' DRESSING ROOM
BOYS' GYMNASIUM
BOYS' LOCKER ROOM
BOYS' REST ROOM
*BOYS' SHOWER
*BOYS' TOILET
Business Administration
BUSINESS OFFICE
*CAFETERIA
CHAPEL
*CHEMISTRY
*CHECK ROOM
CHIEF ENGINEER
CHOIR ROOM
CITIZENSHIP
CIVICS
*CLASS ROOM
*CLOAK ROOM
COACH
COMMITTEE ROOM
*COMMERCIAL
COMMERCIAL DEPT.
CONFERENCE ROOM
CONTROL ROOM
*COOKING
CORRECT SPEECH
*DANGER
*DEAN
DEAN OF COLLEGE
DEAN OF MEN
DEAN OF WOMEN
*DOMESTIC SCIENCE
DORMITORY
DRAFTING
DRAWING
*DRESSING ROOM
EDUCATION
ELEM GRADES
ENGINE ROOM
*ENGINEER
*ENGLISH
*EXIT
EXIT ☞
☜ EXIT
*EXPRESSION
*FACULTY
FACULTY MEN
FACULTY WOMEN
FAN ROOM
FIRE ALARM
FIRE BELL
*FIRE ESCAPE
FOODS
*FRENCH
*FRESHMEN
FURNACE ROOM
GALLERY
GENERAL SCIENCE
GENTLEMEN
*GEOMETRY
GEOGRAPHY
GERMAN
*GIRLS
GIRLS →
← GIRLS
GIRLS' CLOAK ROOM
GIRLS' DRESSING ROOM
GIRLS' GYMNASIUM
GIRLS' LOCKER ROOM
GIRLS' REST ROOM
*GIRLS' SHOWER
*GIRLS' TOILET
GRADE SUPERVISOR
GRAMMAR
*GYMNASIUM
GYMNASIUM-BALCONY
*HISTORY
*HOME ECONOMICS
HOME ROOM
*INFORMATION
INDUSTRIAL ARTS
*INTERMEDIATE DEPT.
*JANITOR
JOURNALISM
JOURNAL ROOM
*JUNIORS
JUNIOR DEPT.
JUNIOR HIGH
J. H. ASSEMBLY
*KEEP OUT
*KINDERGARTEN
KINDERGARTEN DEPT.
*KITCHEN
*LABORATORY
LADY TEACHERS
*LADIES
*LANGUAGE
LANGUAGES
*LATIN
*LECTURE ROOM
*LAVATORY
*LIBRARY
LIBRARIAN
*LOCKERS
MACHINE SHOP
MANUAL ARTS
*MANUAL TRAINING
*MATHEMATICS
MATH. AND SCIENCE
*MEN
MEN TEACHERS
MEN'S LOCKER
MEN'S REST ROOM
MEN'S SHOWER
METAL SHOP
*MUSIC
MUSIC STUDIO
MUSIC SUPERVISOR
NIGHT BELL
*NORMAL TRAINING
*NO ADMITTANCE
NO LOITERING
*NO SMOKING
No Soliciting Allowed Without Permission of Supt.
NURSE
*OFFICE
OFFICE ☞
☜ OFFICE
OPPORTUNITY ROOM
ORCHESTRA
*PHYSICS
PHYSICS-CHEMISTRY
*PHYSICAL CULTURE
PHYSICAL DIRECTOR
Please Turn Out Lights
PRESIDENT
*PRIMARY
PRIMARY DEPT.
*PRINCIPAL
PRINTING
*PRIVATE
PUBLIC SPEAKING
PULL
PUSH
*PULL (Vertical)
*PUSH (Vertical)
READING
READING ROOM
*RECITATION
RESEARCH
RING BELL
SCHOOL BOARD
SCHOOL NURSE
SENIOR HIGH
*SENIOR DEPT.
S. H. ASSEMBLY
*SEWING ROOM
*SCIENCE
*SHOP
*SHORTHAND
*SOCIAL ROOM
*SOCIAL SCIENCE
SCI. STORAGE
*SOPHOMORES
SPANISH
SPEECH
*STAGE
*STOCK ROOM
STORAGE
STORE ROOM
STUDENT COUNCIL
STUDENT ROOMS
STUDY HALL
*STUDY ROOM
*SUPERINTENDENT
SUPTS. OFFICE
Supervising Principal
SUPPLIES
SUPPLY ROOM
*TEACHERS
TEACHERS TRAINING
TOOL ROOM
TREASURER
*TURN OUT LIGHTS
*TYPEWRITING
VOCATIONAL AGR.
WAITING ROOM
WOMEN'S LOCKERS
WOMEN'S SHOWERS
WOMEN TEACHERS
WOODWORKING
WORK ROOM
WRITING ROOM
ZOOLOGY

TYPEWRITER PAD

Made of genuine cork that absorbs shock and vibrations and helps reduce noise and clatter of office machines, these pads also have a smooth, washable surface which will not collect dust or dirt. In an extra large size, 13" x 11", the pad is treated on both sides to eliminate slipping. Will not pack or mat. Each..... 1.00

DESK CHAIR FLOOR MAT

These quality chair mats come in five colors—brown, green, maroon, black and silver gray and in two sizes for executive or stenographic needs. They are durable, lie flat and do not warp, or curl. Made of ¼" tempered fiber, they have an extended lip 20" wide to protect the floor area where the occupant is seated.

No. 501. (36" x 48")..... 7.00 **No. 502.** 48" x 54"..... 11.00

CAFETERIA SUPPLIES

STAINLESS STEEL FLATWARE

Highly Polished — Easily Cleaned

This graceful simple pattern with the highly polished surface has the beauty of sterling silver and wears longer than silver plate. This flatware is guaranteed never to rust, stain, peel, chip or tarnish. Will give long and economical service in the hardest kind of restaurant or cafeteria use.

Teaspoons	Dozen 1.94	Gross 19.40
Soup Spoons	Dozen 2.88	Gross 28.80
Tablespoons	Dozen 3.96	Gross 39.60
Sundae Spoons, 5"	Dozen 1.94	Gross 19.40
Soda Spoons, 8"	Dozen 2.88	Gross 28.80
Forks	Dozen 2.88	Gross 28.80
Knives	Dozen 6.95	Gross 69.50

SANITARY WASTE RECEPTACLES

Modern styled, neat appearing waste container for cafeteria use. Finished in white baked enamel with stainless steel trim. Self-closing stainless steel door with rubber silencer. Galvanized inner container with handle. Rounded top and sides makes for easy cleaning. Rounded edges of bottom protect floor. To empty lift outer shell and inner container is exposed.

No. 1101. 37" High x 15" Diameter
27" High x 13" Diameter container..... 19.20 each

PAPER STRAWS

These straws are wrapped and sealed with one or two straws per package. This complies with the sanitary code of the state and facilitates easier handling.

MILK STRAWS

No. 5106. 6½", 1 straw per wrapper. 500 wrappers per box, 25 boxes per case.
Per box ... 1.40 Per case.... 30.80

No. 5206. Same as above, two straws per wrapper.
Per box ... 1.45 Per case.... 31.90

SODA STRAWS

No. 5108. 8½", 1 straw per wrapper. 500 wrappers per box, 25 boxes per case.
Per box.... 1.40 Per case.... 30.80

No. 5208. Same as above, two straws per wrapper.
Per box.... 1.45 Per case.... 31.90

HOT DRINK CUPS

Sanitary paper cups for serving hot drinks in cafeterias available in two sizes. Cups are packed fifty cups to a tube, 1000 cups per case.

No. 207 — 7 oz.
Per tube of 50.. 1.00 Per case.. 17.00

No. 209 — 9 oz.
Per tube of 50.. 1.05 Per case.. 18.00

A complete line of sanitary paper cups, plates, portion cups, soda fountain cups, is available. Please forward your samples for quotation on your requirements.

PAPER NAPKINS

Absorbent, strong, paper napkins for cafeteria use, available in quarter fold or napkin dispenser fold.

No. 1. Dispenser Fold, 9¼ x 13½".
Case, 10M 9.50

No. 2. Quarter Fold, 13½ x 13½".
Case, 6M 7.95

PAPER NAPKIN DISPENSERS

Dispensers for napkins folded to maximum size of $3\frac{11}{16}$" x $7\frac{1}{16}$". (No. 1 above.) Chrome finish with black trim. Easy to load—easy to clean—perfect dispensing.

No. 900A..... Each 1.00 Dozen 10.00

SWEEPING COMPOUND

SCHOOL SERVICE

School Service Special Green Compound. Packed in partitioned containers to keep oil from settling to bottom.

100-lb. drum	3.75
200-lb. drum	7.30
300-lb. barrel	10.00

PEERLESS

100-lb. drum	3.60
200-lb. drum	6.80
300-lb. barrel	9.60

PLASTIC CAFETERIA TABLE WARE

C-76 Cup CS-77 Saucer

P-51 — P-68 Plate

B-79 Soup Bowl

P-72 or P-73 Platter

B-44 — S-43 Dish

By outfitting your school cafeteria with this colorful unbreakable Plastic Tableware you are taking a step toward realizing a considerable saving in dollars and cents as well as reducing the noise in the cafeteria and kitchen.

SANITARY—Due to the absence of cracks, chips, scratches, and checks the bacteria count after washing is much lower than on regular china dishes.

COLORFUL—The overall appearance of the dining room plus the enhancing of the food itself is brought about by the clear pastel shades—Tan, Blue, Coral and White.

UNBREAKABLE—Yes, they are practically unbreakable. This line of plastic tableware will withstand very rough handling. This factor alone, after checking the replacement cost for one year on china should place plastic in your cafeteria.

QUIET—The clatter and clash of the cafeteria at meal time can be reduced to a minimum.

DESIGN—Because all the dishes of the same type comes from the same size mold, they stack evenly and solidly yet allow enough space between each piece for quick drying.

WEIGHT—Because of their extreme lightness the handling of the dishes is speeded up and made easier for small children.

		Dozen	Gross
P-51	9" Plate	14.40	144.00
P-68	6½" Plate	7.80	78.00
P-46	9¾" Comp. Plate	19.70	197.00
P-70	8x11½" Platter	22.00	220.00
P-72	6½x9½" Platter	12.40	124.00
P-73	7x10½" Platter	14.20	142.00
C-76	Cup, 7 oz.	8.40	84.00
CS-77	Saucer, 6"	6.60	66.00
C-45	Cup, 6⅔ oz.	8.40	84.00
CS-41	Saucer, 5⅝"	6.60	66.00
B-79	Bowl, 16 oz.	10.60	106.00
B-78	Bowl, 14 oz.	9.80	98.00
B-44	Bowl, 10 oz.	6.40	64.00
S-43	Bowl, 4¾ oz.	5.40	54.00

TRAYS

Brown Only

No. 111.	14"x18"	24.40	244.00
No. 113.	10"x14"	18.60	186.00

C-45 Cup CS-41 Saucer

P-46 Plate

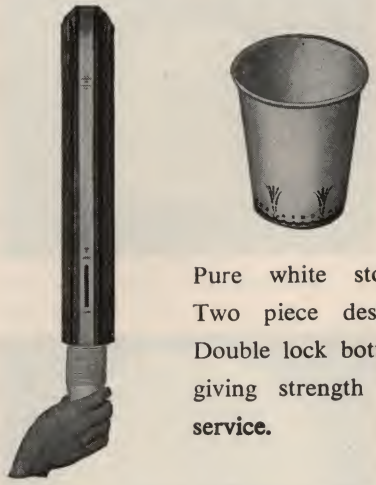
B-78 Soup Bowl

B-70 Platter

No. 111-113 Trays

DRINKING CUPS AND WATER FOUNTAINS

AERO DRINKING CUPS



Pure white stock. Two piece design. Double lock bottom giving strength for **service.**

Dispenser—Easy to load—nothing to break, no moving parts.

100 in a box 5 M per case

No. 440—3½ Ounce

Per thousand	5.20
Per case—5 thousand	22.00
Dispenser No. 523	2.00

No. 501—5 Ounce

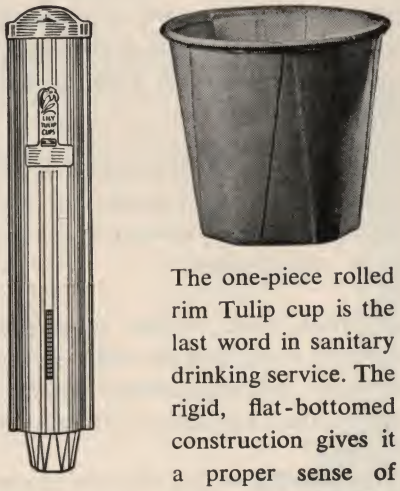
Per thousand	7.50
Per case—2½ thousand	15.00
Dispenser No. 5005	2.00

COLUMBIAN FLAT DRINKING CUPS

Improved Style-Folded Lip Edge Modern Dispenser 1.75

Less than Case, per M	2.75
Full Case, 10M	21.00
Cups, per Carton	250
Cups per Case	10M

No. 450 TULIP CUPS



The one-piece rolled rim Tulip cup is the last word in sanitary drinking service. The rigid, flat-bottomed construction gives it a proper sense of balance . . . no spilling. And rolled rims are kind to the lips.

100 in a box 5M in a case

No. 450PB—3½ Ounce

Per thousand	4.75
Per case—5 thousand	21.40
Dispenser No. 450PT	1.75

No. 5PB—5 Ounce

Per thousand	7.40
Per case—2½ thousand	15.00
Dispenser No. 5PT	1.75

BURT VORTEX CUPS

Dispenser of 300 cup capacity but very compact.

Stands only 13 inches high.

250 in a box
5M in a carton

Less than Case, per M	3.15
Case, 5M at 2.00 per M	10.00
Dispenser	1.25

No. 4 STONE WATER COOLER

For the small rural school with only a few pupils, there is available the No. 4 Fountain. It can be placed on a table with a pail beneath to catch the overflow. The No. 4 consists of a glazed earthenware container. No stand or waste pail is provided. Only the equipment shown in the illustration is furnished.

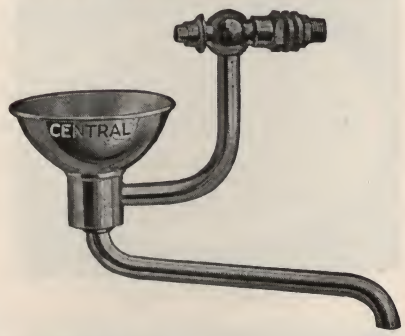
Furnished with nickled brass faucet or chrome bubbler.

	With Push Faucet	With Bubbler
2 gal. size	4.00	10.25
4 gal. size	6.00	12.25
6 gal. size	9.00	15.25

COOLERS ONLY

2 gal. size	2.50
4 gal. size	4.50
6 gal. size	7.50

PUSH BUTTON GRAVITY BUBBLER



Chromium finish.

Each 8.00

PUSH BUTTON GRAVITY FAUCET

Nickel plated brass.

D-427 . . . . . 2.00

SOAP DISPENSERS – JANITORS SUPPLIES

THE LATHURN DISPENSER

Dispenses thick creamy lather with any liquid soap. No splash, measured amount. Will not clog, no waste, no leak, simple to install. Chromium plated tank, stainless steel valve and spring.
Each 10.00

PUSH TYPE DISPENSER

White glass globe with shiny black unbreakable plastic body – Gleaming chromium plated top. Lock filler cap allows filling without removing globe. Unconditionally guaranteed.
No. 21. Each . . 4.40

PLUNGER TYPE SOAP DISPENSER

Bracket is made of white metal (cannot rust or corrode) chrome plated, and fitted with removable transparent paneled heavy glass globe. The globe and mechanism are built independently of the bracket and are removable for filling, simply by unscrewing.
Dimensions: Height 6½"; projection 5½".
Capacity of globe 14 oz.
No. 125. Each 2.25
Extra Glass Globes ..... .75

CAKE SOAP DISPENSER

SOAPITOR

Chrome dispenser which dispenses powdered soap from a solid cake. Easily installed and refilled. Positive action. Uses up the complete cake. No waste. An asset to any washroom.
Price each 6.50

SOAP FOR SOAPITOR

Dozen cakes 4.00
Three dozen cakes 10.50
Six dozen cakes 19.50
One gross cakes 36.00

ONE QUART DISPENSER

Installed flat-against-the-wall for strength and durability. There is no bracket to cause leverage on the wall screws. The long and broad back insures a permanent installation.

Easily filled from the top through a large opening.

Ample supply of soap dispensed without jiggling. Will not deliver a steady stream.

Brass Valve. Stainless Steel Spring. Neoprene washer. All parts rust proof. Heavy Glass Globe. Capacity 1 quart.

No. 9. Each 2.50

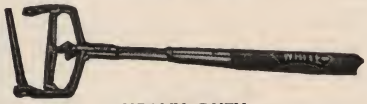
OVAL MOPPING BUCKETS

"Slides on Gliders"
For Janitor Mop Squeezer
More room for Mop Squeezer!
More room to wash mop!
More water to wash floors!

Hand-made of 24-gauge galvanized steel, hand-soldered, leak-proof, reinforced with heavy corrugations and band steel gliders on bottom, heavy wire bail, certified malleable iron bail ears.

No. 26 (26 qt.) 5.70
No. 260 (26 qt. with casters) 10.10

MOP STICK



HEAVY DUTY
No. 98. 60". Each 2.70

MOP SQUEEZER

A large Janitor Size Mop Squeezer for use with Mop Heads up to 32 oz.

Steel handle, 16-1 leverage. Fits any pail.

No. 0 ..... 9.00

WINDOW CLEANER

AERO-MIST

The wonder cleaner for windows, mirrors, pictures and all glass surfaces. Cleans without soap or water and does it quickly and thoroughly.

8-oz. size. Each 15
Dozen 1.50
24-oz. size. Each . .30
Dozen 3.00
1 gal. size. Each . . 1.50
Dozen 15.00
Sprayer Pumps for 8-oz. and 24-oz. size.
Each ..... .20

LIQUID GLASS POLISH

A creamy liquid chemical cleaner that cleans and polishes mirrors, porcelain, porcelain enamel, windows, show cases, plastics, silver, silver-plate, refrigerators, chromium, aluminum trim, monel metal, etc. It leaves a protective film on the cleaned surface; a film resistant to dust, dirt, moisture and finger smears. Produces a brilliant sparkle on glass, without leaving streaks or smears.

No. 1653. Per quart .70 Per gal. . . 1.95

AUTOMATIC APPLICATOR

Made of durable pressed steel. 14" spreading surface, 60" long handle.

The ease and speed of floor finishing and floor maintenance is stepped up to maximum efficiency with this low-cost heavy duty Automatic Applicator.

Operation is simple. Just fill the tank with fluid—press the lever—and spread. The unit holds 3½ pints of liquid. The lever controls 8 equalizing valves in the bottom of the applicator. By the pressure of a finger, any desired amount of liquid passes through the valves—then through aligned holes in the lamb's wool pad onto the floor. This applicator saves time—all operations are combined into one movement. *Applies Any Liquid Floor Treatment.* No pressure is required, the weight of the applicator being sufficient to apply perfect, thin, uniform, quick-drying coats. Waste is avoided as any unused liquid is kept clean in the tank and can be used later. There are no mops or pans to be carried, therefore, no dripping or spilling of the liquid

Each 13.00

PAPER TOWELS

MOSINEE CONTROLLED TOWEL SERVICES — THE REASON FOR THEM AND THEIR IMPORTANCE TO CERTAIN CONSUMERS

Most towel users are careless in that they take more towels than they need to dry their hands. Cheap, ordinary ground-wood towels exist because of the theory that as long as towels are wasted, the lowest priced towel is the cheapest to use. Even under the worst conditions, a better grade towel will go further because it can dry the hands. The real remedy, however, for towel carelessness is a controlled service. Make the user expend some effort to get a towel, take away the ever-present next towel, offer a towel that will dry the hands completely, and towel waste can be cut as much as 50 per cent. Mosinee towel quality can be had through controlled fixtures at a cost equal to or lower than that provided by cheap, flimsy towels.

No. 300 and No. 333 ROLTOWL

This lightweight towel put up in roll form, with the new Roltowl cabinet, offers the finest roll towel service on the market. The No. 333 Roltowl has a larger core and fits only the Roltowl cabinet. A No. 300 Roltowl is available which will fit any 10-inch roll fixture except the Mosinee Roltowl cabinet.

SPECIFICATIONS

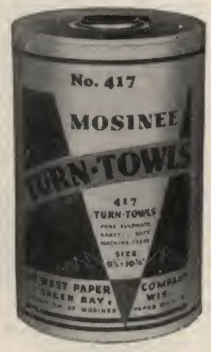
Material	Pure Sulphate
Size	10 x 10"
Color	Natural Brown
Size of Roll	5¼" diameter x 10"
Roltowls, per Roll	300
Rolls, per case	25
Roltowls, per case	7,500
Size of Case	24½x10¾x23½"
Shipping Weight	51 lbs.

PRICES

1 carton	12.00	10-24 cartons	10.00
2-4 cartons	11.20	25-49 cartons	9.85
5-9 cartons	10.40	50-99 cartons	9.45
100 or more			9.10

No. 417 TURN-TOWL

Turn-Towls, which are dispensed from the manually operated Turn-Towl Cabinet, have proven in washroom use that they will reduce towel consumption an average of 50 per cent. This heavier weight, all sulphate towel provides maximum drying efficiency.



SPECIFICATIONS

Material	Pure Sulphate
Size	9⅜ x 10¾"
Color	Natural Brown
Size of Roll	6½" diameter x 9⅜"
Turn-Towls, per Roll	417
Rolls, per case	18
Turn-Towls, per case	7,500
Size of Case	18¼x18¼x20½"
Shipping Weight	63 lbs.

PRICES

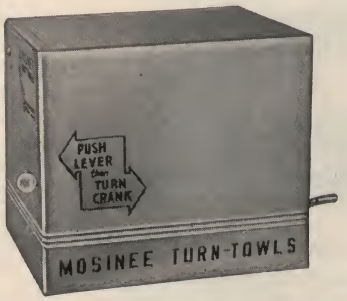
1 carton	13.50	10-24 cartons	11.25
2-4 cartons	12.60	25-49 cartons	11.05
5-9 cartons	11.70	50-99 cartons	10.60
100 or more			10.25

8¾" high
11¾" wide
6¼" deep

ROLTOWL CABINET

Brand new cabinet for the exclusive dispensing of No. 333 Roltowl. Cabinet is equipped with a special "rocking core" which prevents user from spinning the roll to get unneeded towels. Cabinet is equipped with lock and provides cover for the roll. Towels are always readily available to user.

9" high
10½"
wide
7½" deep



TURN-TOWL CABINET

A truly efficient manually operated cabinet for the dispensing of Turn-Towls. Directions are simple; cabinet is easy for the user to operate. No time delays of any kind are forced on the user. Each towel must be torn off before another can be obtained. Available on lease basis only.

PAPER TOWELS

WHAT IS SULPHATE PAPER, AND WHY ARE MOSINEE TOWELS MADE FROM IT?

There are a number of processes used to convert wood into pulp to be made into paper. The sulphate process provides for a slow, gentle cooking of the wood fibres which produces a pulp from which papers of great strength and high absorbency are made. All Mosinee Towels are made from pure sulphate which gives them maximum strength and fast absorbency—the two most important features to look for in any paper towel.

MOSINEE FOLDED TOWELS AND DISPENSERS

No. 28 ZIP-TOWL

The new, lightweight, pure sulphate towel with wet-strength. Stronger wet or dry than any other towel in its class. Provides excellent service at an extremely low cost.

SPECIFICATIONS

Material	Pure Sulphate
Size	10¾ x 10"
Color	Natural Brown
Size of Package	10x5½x3¼"
Zip-Towls. Per package	250
Packages. Per carton	15
Zip-Towls. Per carton	3,750
Size of carton	17x10¾x16½"
Shipping weight	27 lbs.

PRICES

1 carton	6.05
2-4 cartons	5.65
5-9 cartons	5.25
10-24 cartons	5.05
25-49 cartons	4.85
50-99 cartons	4.70
100 or more	4.50

No. 26 TRIM-TOWL

New addition to the Mosinee line. Lightweight, wet-strength multifold towel. Designed to dispense from most multifold style cabinets. Made from same sulphate stock as the Zip-Towl.

SPECIFICATIONS

Material	Pure Sulphate
Size	10 x 9½"
Color	Natural Brown
Size of Package	10x6x3¼"
Trim-Towls. Per package	250
Packages. Per carton	15
Trim-Towls. Per carton	3,750
Size of carton	17x10¾x16½"
Shipping weight	24 lbs.

PRICES

1 carton	5.65
2-4 cartons	5.30
5-9 cartons	4.90
10-24 cartons	4.75
25-49 cartons	4.55
50-99 cartons	4.40
100 or more	4.25

No. 32 PREP-TOWL

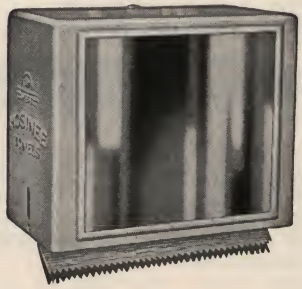
This pure sulphate towel in a heavier basis weight provides a fine all-around service at a very reasonable service cost. Used year after year by thousands of organizations.

SPECIFICATIONS

Material	Pure Sulphate
Size	10¾ x 10"
Color	Natural Brown
Size of Package	10x5½x3½"
Prep-Towls. Per package	250
Packages. Per carton	15
Prep-Towls. Per carton	3,750
Size of carton	17x10¾x17"
Shipping weight	31 lbs.

PRICES

1 carton	6.50
2-4 cartons	6.10
5-9 cartons	5.65
10-24 cartons	5.45
25-49 cartons	5.25
50-99 cartons	5.05
100 or more	4.85



JACKNIFE CABINET

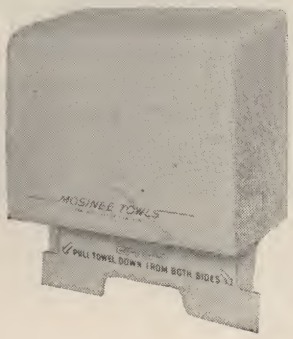
This attractive all-steel cabinet is made especially for the smooth dispensing of Mosinee Towels, right down to the last towel in the package. Available in both plain and mirror front. 9" high, 10½" wide, 5¾" deep.

Without Mirror	1.90
With Mirror	2.10

SENTINEL CABINET

Exclusive Mosinee economy channel provides for controlled dispensing of Mosinee Single-fold towels. Prevents wasteful yanking of towels not needed. Installations have proven it will cut towel consumption on an average of 25 per cent. 13" high, 10½" wide, 5¾" deep.

LEASE ARRANGEMENT ONLY



PAPER TOWELS – TOILET TISSUE – JANITORIAL SUPPLIES

PAPER BATH TOWELS

Cut your towel costs with the Mosinee Paper bath towels. 100% pure sulphate material. Natural brown color. This new heavy weight material provides a splendid service at a substantial saving over other types of towels. One towel is sufficient for each student and eliminates all laundry costs. Size 18"x40". Packaged 1000 towels per bundle, with each bundle punched to fit on a dispenser, as shown. Many of the schools in the state are now using these fine towels and we suggest that you try them and make your own comparisons on both efficiency and cost.

PRICES PER BUNDLE OF 1000 TOWELS

1 bundle	14.85	10 to 24 bundles	12.15
2 to 4 bundles	13.95	25 to 49 bundles	11.70
5 to 9 bundles	13.05	50 to 99 bundles	11.25
100 or more bundles	10.80		

ROLL TISSUE

A high grade tissue for individual use. 2000 sheets, size 4½ x4½, to the roll. 50 rolls to the case, 51 pounds.

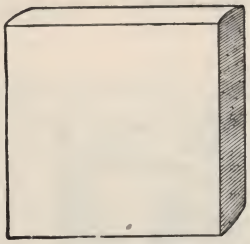
No. 26. Per case 11.05

ROLL TOILET PAPER FIXTURES

Base and arms of heavy gauge steel. Grey iron spindle permanently hinged to arm, spring-locked when in use. Accommodates all standard rolls. Base 7⅛" by 2⅜", arm extension 3¾" mounting screw spacing 4½" to 5⅝".

No. 200. Green 1.25
No. 200. White 1.35
No. 200. Chrome 1.55

INTERFOLDED TOILET TISSUE



A good quality tissue which is absorbent and soft and yet strong textured.

DOUBLE FOLD TYPE

800 sheets 4½" x 5¾" in each package, 125 packages per case.

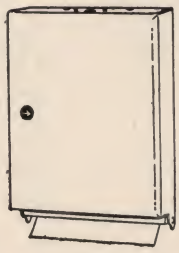
No. 45. Per case 14.95

SINGLE FOLD TYPE

1000 sheets 4½" x 5" in each package, 100 packages per case.

No. 5. Per case 13.30

INTERFOLDED TOILET TISSUE CABINETS



The most desirable type tissue dispenser for the schools. Dispenses one folded unit of tissue at a time, thus reducing waste.

Either single or double fold cabinets are available in chrome, white or green finish. Holds a full package of folded tissue. Complete with key and lock.

DOUBLE FOLD TYPE

No. 700 D. Chrome 2.25
No. 700 D. White 1.35
No. 700 D. Green 1.30

SINGLE FOLD TYPE

No. 700 S. Chrome 2.30
No. 700 S. White 1.40
No. 700 S. Green 1.35

DRAFT DEFLECTORS

Adjustable Steel, Beige Enamel.

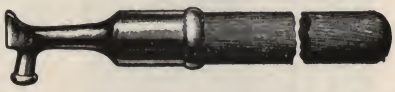
No. 1. 10" high, 27" to 48" wide 5.50
No. 2. 10" high, 34" to 60" wide 6.00
No. 3. 12" high, 40" to 72" wide 6.75

HEAVY DUTY DUST PAN

An exceptionally durable dust pan with floor rest that adjusts pan to the proper angle with the floor.

No. 2JD 1.50

WINDOW PULL-DOWN POLES



Made to meet the requirements of every type window that must be raised or lowered, these poles are equipped with a rubber cushion which lessens the possibility of window breakage. In polished walnut, 1⅛" in circumference.

5 ft. pole, ea. 1.15 8 ft. pole, ea. 1.65
6 ft. pole, ea. 1.25 10 ft. pole, ea. 1.90

GYMNASIUM MATS

DE LUXE MATS

DE15.	1" thick, No. 10, 14.73-oz. Duck. Per sq. ft.	1.20
DE25.	2" thick, No. 10, 14.73-oz. Duck. Per sq. ft.	1.66
DE35.	3" thick, No. 10, 14.73-oz. Duck. Per sq. ft.	2.16
DE11.	1" thick, No. 6, 21.27-oz. Duck. Per sq. ft.	1.28
DE21.	2" thick, No. 6, 21.27-oz. Duck. Per sq. ft.	1.74
DE31.	3" thick, No. 6, 21.27-oz. Duck. Per sq. ft.	2.24

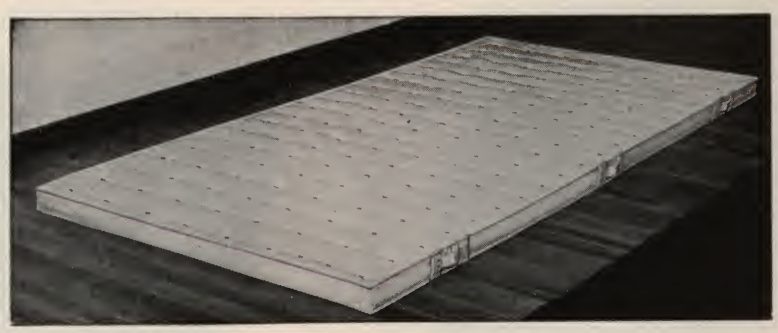
HEAVY DUTY MATS

HY15.	1" thick, No. 10, 14.73-oz. Duck. Per sq. ft.	1.07
HY25.	2" thick, No. 10, 14.73-oz. Duck. Per sq. ft.	1.30
HY35.	3" thick, No. 10, 14.73-oz. Duck. Per sq. ft.	1.66
HY11.	1" thick, No. 6, 21.27-oz. Duck. Per sq. ft.	1.15
HY21.	2" thick, No. 6, 21.27-oz. Duck. Per sq. ft.	1.38
HY31.	3" thick, No. 6, 21.27-oz. Duck. Per sq. ft.	1.74

FIBATEX MATS

FX15.	1" thick, No. 10, 14.73-oz. Duck. Per sq. ft.	.88
FX25.	2" thick, No. 10, 14.73-oz. Duck. Per sq. ft.	1.06
FX35.	3" thick, No. 10, 14.73-oz. Duck. Per sq. ft.	1.22
FX11.	1" thick, No. 6, 21.27-oz. Duck. Per sq. ft.	.96
FX21.	2" thick, No. 6, 21.27-oz. Duck. Per sq. ft.	1.14
FX31.	3" thick, No. 6, 21.27-oz. Duck. Per sq. ft.	1.30

Prices on above without handles — Handles .65 each



GYMNASIUM MATS

America's Finest Mat. This mat is certified to be of 100% pure Goat Hair Felt in two one inch layers. Covered with the finest grade double filled, numbered duck; edges square; tufts are spaced 6" x 7", made of heavy seine twine, waxed with genuine Beeswax and triple knotted. The handles are of the rooted type, extended into the mat and are, in addition to being sewn, riveted to the edges of the mat. This is the finest and most durable mat.

STEP LADDERS AND LADDER SHOES

GENERAL PURPOSE EXTENSION LADDER

This general purpose extension ladder is equipped with rung braces made of steel for long life and added strength. All stock used in its construction is air dried for full strength. The rung tenons are dipped in hot linseed oil for preservation and long life. The rails on the ladder measure 1 5/16" x 2¾" and 3" x 3½". It is available in two sizes and may be purchased with or without rope and pulley.

Extension 20 to 32 ft. (two sections) . . . . . 1.10 per ft.
Extension 34 to 44 ft. (two sections) . . . . . 1.20 per ft.
Extension 36 to 60 ft. (three sections) . . . . . 1.35 per ft.

(Without rope and pulley, deduct 3 cents per foot)

GENERAL PURPOSE STEP-LADDER

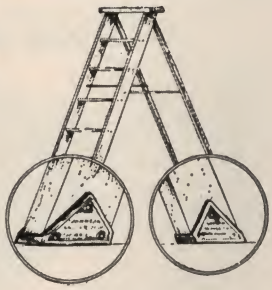
A very handy all-purpose step-ladder, this model is made with 1⅛" hickory rungs. Made of the same high quality air dried stock as the extension ladder, the rung tenons of this ladder have also been dipped in hot linseed oil to add to their durability. A useful shelf unfolds from one side of the ladder to accommodate work materials. Front rungs measure 13/16" x 3½" and the back rungs measure 1⅛" x 2¼". The steps measure 13/16" x 4".

Ladder 4 to 12 ft. . . . . 1.90 per ft.
Ladder 14 to 18 ft. . . . . 2.00 per ft.

STEP LADDER SHOE

Johnson Step Ladder Shoes fit all ladders. Like the Johnson Ladder Shoe they too promote safety and eliminate accidents.

Per set of 4 .95



JOHNSON LADDER SHOE

The **Johnson Ladder Shoe** eliminates the hazards so common to the ladder man. Thousands of accidents occur each year from slipping ladders. Sound engineering principles designed the Johnson Ladder Shoe. Place your ladder at any angle—on any surface—climb to the top rung—what a pleasure it is to feel safe.

Per pair 3.50

SPORTS EQUIPMENT

FIRST BASEMAN'S MITT

Extra large size. Made with a one piece palm and thumb "ball lock". Pocket is grease set and fully oiled. Adjustable claw type web with reinforced eyelets. Made of the finest selected heavy mitt cowhide and lined with cowhide glove leather.

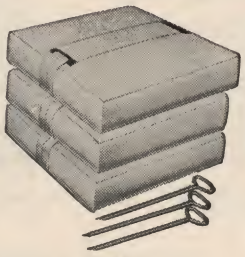
No. BMF. Each 14.65

Large size. Has a one piece palm and thumb with a "ball lock pocket" grease set and fully oiled. Adjustable claw type web with reinforced eyelets. Made of the best selected heavy mitt cowhide lined with cowhide glove leather.

No. 861. Each 6.90

PLAYGROUND BASES

Covered with 14.9 oz. duck; wood wool filled; 1 leather-bound tunnel, backed with canvas, one large spike and one strap per each base.



No. 4B
Set of 3 bases
9.25

OFFICIAL SOFTBALL BASES

Same contents as 4B.

No. 7B. Set of three bases 6.95

SOFT BALL BATS

No. A9601 (125Y). This soft ball bat is the official Louisville Slugger model with a small barrel. It measures 2½ inches in diameter and is made with a straight taper to a small grip. Only the finest second growth ash is used in its construction. The grip is small and tapered.

Each 2.75

No. 9625 (200A). A "Fast-Swing" model, this bat comes in lengths of 31 and 32 inches. It is made with a brown finish and has a white taped grip.

Each 2.20

FIELDER'S GLOVE

Extra large size. Has a one piece palm and thumb construction. Grease set with deep ready broken in pocket. Full oiled three finger style. Solid type double leather webb with hinge in center. Made of the best selected glove cowhide. Fully lined and leather laced at the wrist.

No. 773. Each 11.50

Large size. Inserted thumb with reinforcer. Grease set with deep ready broken in pocket. Full oiled. Has adjustable three interlocking tunnel web with reinforced eyelets. Made of the best selected glove tanned cowhide leather. Fully lined with cowhide leather. Roll leather binding at the wrist which is laced with leather.

No. 774. Each 11.50

Short finger style. Has an inserted thumb with a reinforcer. Grease set with deep ready broken in pocket. Full oiled. Web with adjustable interlocking tunnels is reinforced eyelets. Made of a good selected glove tanned cowhide. Leather laced at the wrist.

No. 764. Each 10.00

BASKETBALL GOAL NETS

Official size nets of extra strong twine.

No. 48. Each . . 1.15 Dozen . . 11.50

CATCHER'S MITTS

Extra large size. Three-quarter banded type mitt palm construction with a deep hand formed ready broken in pocket. Fully oiled. Has a ball lock web of heavy rolled leather lace. Made of the finest selected heavy mitt cowhide. Has a leather-laced edge.

No. 910. Each 12.80

Large size. Has a half banded scoop model palm with a deep hand formed grease set ready broken in pocket. Leather laced web in figure eight style. Made of good selected heavy mitt tanned cowhide with a leather laced edge.

No. 908. Each 10.00

SOFTBALLS

No. A9174 (H42N). This official 12 inch ball is made with the finest quality long fibre with a new Java kapok center. The yarn is wound with a pre-vulcanized duplex inner cover. The specially tanned lustrous white horsehide cover can be easily seen under night lights and is washable. Double stitched. Each 3.10

No. A9184 (H152). This durably constructed 12 inch official Wilson softball has a good quality kapok center, yarn wound. It has a pre-vulcanized inner cover and a select, double stitched, pearl-gray horsehide cover that will give good service for league play or practice.

Each 2.35

BASEBALLS

No. A1010 (W150C). Major league specifications and Wilson quality materials and workmanship make this ball top choice in many important leagues, including the American Association and the Pacific Coast Leagues. The cork center is cushioned in rubber, and is wound with the finest blue-gray and white wool yarn. The center is anchored and balanced, assuring maximum durability and shape retention. The ball is covered with the finest selection of non-scuff, water repellent alum-tanned horse hide, double stitched with strong red cotton thread.

Each 2.80

No. A1070. A fine ball for practice or game use, this model is the official major league baseball. The high grade wool yarn is anchored to a cork and rubber center and balance wound. It has a tough, white alum-tanned horsehide cover.

Each 2.00

SPORTS EQUIPMENT

FOOTBALLS

Finest, select, top grain, official football leather specifications specially tanned Anilene dye. Lining of two-ply herring bone twill, vulcanized with live rubber. Lock stitched with waxed thread. Bladder is a one piece molded unit with a rubber valve. Laced at 8 points. Official size and weight. Comes inflated. Also made in white for night games.

No. J5. Each 10.00

Finest selected top grain official football leather. Has a two-ply herring bone twill lining, vulcanized with live rubber. Lock stitched with waxed thread. One piece molded bladder with rubber valve. Official size and weight. Comes inflated.

No. K5. Each 8.00

Best selected heavy top grain pebbled cowhide casing, with a two ply double vulcanized fabric lining. Sewed with waxed thread. One piece molded bladder with rubber valve. Official size and weight. Comes inflated.

No. H5. Each 6.00

SOCCER BALLS

Finest selected smooth grain English soccer hide casing water repellent in a 12 panel pattern. Has a two ply herring bone twill lining vulcanized with live rubber sewed with wax thread. Has a one piece molded bladder with rubber valve. A laceless soccer ball in the official size.

No. SO40. Each 8.00

Good selected heavy top grain pebbled cowhide casing specially tanned in a twelve panel pattern. A two ply herring bone twill lining vulcanized with live rubber. Sewed with waxed thread. Has a one piece molded bladder with rubber valve. Eight point double lacing official size. Comes inflated.

No. SO30. Each 6.00

BASKETBALLS

Molded. Best selected specially tanned top grain official molded basketball, leather casing. Lining carcass is composed of layers of cloth and rubber vulcanized into a solid unit for lasting shape. One piece official molded bladder with rubber valve. Official size and weight. Comes inflated.

No. 2BOL. Each 13.30

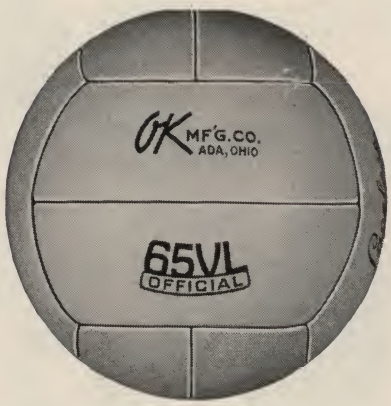
Finest selected top grain of official basketball leather casing, specially tanned with Anilene dye. Lining is a two ply herring bone twill vulcanized with live rubber. Lock stitched with waxed thread. One piece official molded bladder with rubber valve. Official size and weight. Comes inflated.

No. 2BO. Each **12.00**

Finest selected top grain basketball leather casing, specially tanned. With a two ply herring bone twill lining, vulcanized with live rubber. Lock stitched with waxed thread. One piece official molded bladder with valve. Official size and weight. Comes inflated.

No. B5. Each 7.20

VOLLEYBALLS



Finest selected pure white calf skin casing, specially tanned in a 12 panel pattern. Has a two ply double vulcanized fabric lining. Sewed with waxed thread. One piece molded bladder with rubber valve. A laceless ball in the official size. Comes inflated.

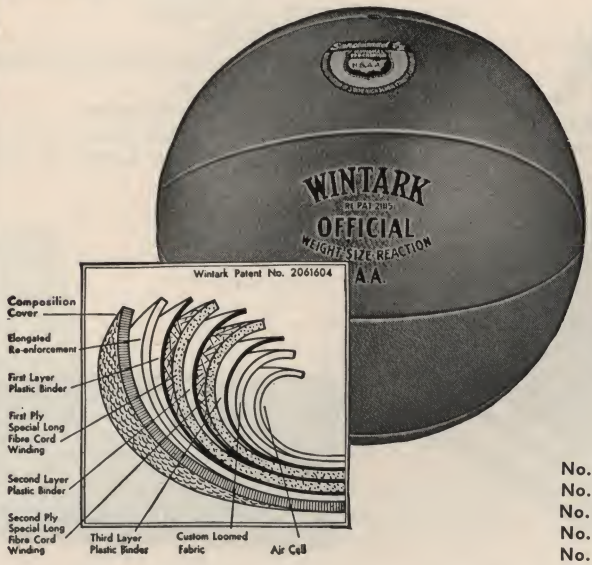
No. V20L. Each 9.20

Good selected cream cowhide casing, specially tanned in a twelve panel pattern. Has a two ply double vulcanized fabric lining. One piece molded bladder with a rubber valve. Eight point lacing official size. Comes inflated.

No. V-15 ..... 8.00

WEAVER-WINTARK RUBBER BALLS

These balls are fibre-cord wound, fabric lined with a heavy rubber composition cover. They are designed to withstand the roughest use, will retain their shape indefinitely and will conform to the official regulations as to size, weight and rebound. Moisture proof, washable.



PRICES

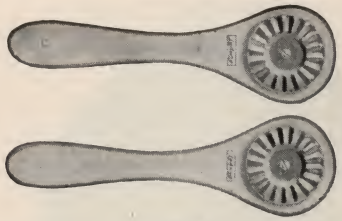
	Each
Basketball, Official	11.95
Football, Official	11.25
Football, Intermed.	11.25
Soccerball, Official	11.25
Volleyball, Official	11.25

PLAYGROUND BALLS

An all rubber ball with a fool-proof needle valve. Used to play every game on the playground. Absolutely uniform in size, shape and weight. Will withstand the roughest uses on any kind of court. Moisture-proof. Washable.

	Each
No. 050V. 5" diam.	1.05
No. 060V. 6" diam.	1.65
No. 070V. 7" diam.	2.00
No. 085V. 8½" diam.	2.35
No. 0100V. 10" diam.	2.65

RHYTHM BAND EQUIPMENT



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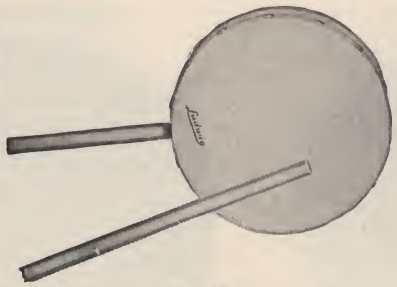

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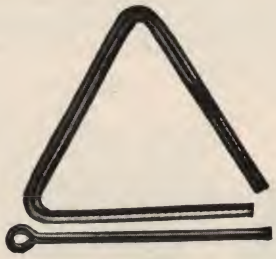
No. 6052

No. 6053

No. 6030

No. 6061



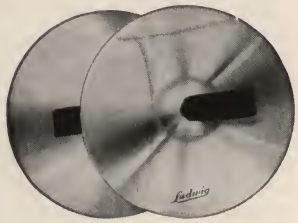
No. 6056

VALUE OF THE RHYTHM BAND

The value of a rhythm band cannot be estimated in its wealth of musical experience which it offers children. Besides training in united action, it allows a full expression of musical desires. The training in feeling the musical beat and accent strongly and the sensing of the meter, develops musical appreciation as well as muscular coordination. With basic training like this under the skilled direction of a leader, a child receives unusual preparation for real orchestra and band experience in Junior and Senior High School.

No. 6030.	Director's Baton	.50
No. 6031.	Rhythm Sticks (both plain)	.20
No. 6032.	Rhythm Sticks (one notched and one plain)	.40
No. 6034.	Jingle Clogs, pair	.80
No. 6035.	Rhythm Castanets	.70
No. 6036.	Hand Castanets	1.00
No. 6037.	Castanets on Wooden Handle	1.75
No. 6038.	Tone Block and Beater	1.30
No. 6039.	Sand Blocks	.90
No. 6040.	Rhythm Band Tambourine	3.25
No. 6041.	Snare Boy	3.50
No. 6042.	Tom Boy	3.00
No. 6043.	Rhythm Band Xylophone (one or two mallets)	7.50
No. 6044.	Bird Whistle	2.25
No. 6050.	Cymbals with Web Straps	2.20
No. 6051.	Cymbal with Strap and Beater	1.20
No. 6052.	Sleigh Bells	.70
No. 6053.	Bell Boy	.80
No. 6054.	Rhythm Bell	1.10
No. 6055.	Tone Bell and Beater	1.50
No. 6056.	Triangle with Striker	.75
No. 6057.	Triangle Holder	.20
No. 6060.	Rhythm Tone Gourd with Scratcher	1.40
No. 6061.	Rhythm Claves	.75
No. 6062.	Imported Rhythm Maracas	1.25
No. 6063.	Cuban Type Rhythm Bongo (5" x 7")	4.50
No. 6064.	Cuban Type Rhythm Bongo (5" x 8")	5.00

No. 6036



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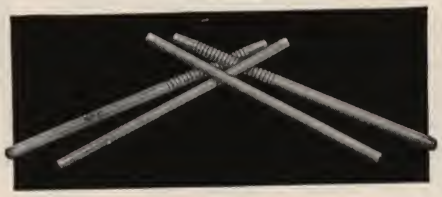
No. 6044

No. 6043



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No. 6038

RHYTHM BAND OUTFITS

30 PUPIL OUTFIT

12 pair Rhythm Sticks, one notched (pair to pupil)
4 Jingle Clogs (one clog to pupil)
2 Sleigh Bells (one to pupil)
2 Tone Blocks and beaters
1 Snare Boy (drum effect) and beater
1 Tom-Boy (Tom-Tom effect) and beater
1 Rosewood Xylophone and mallets
1 Castanet on handle
4 Cymbals (used in pairs)
2 Triangles and strikers
2 Tambourines
Director's Baton and Instruction Book

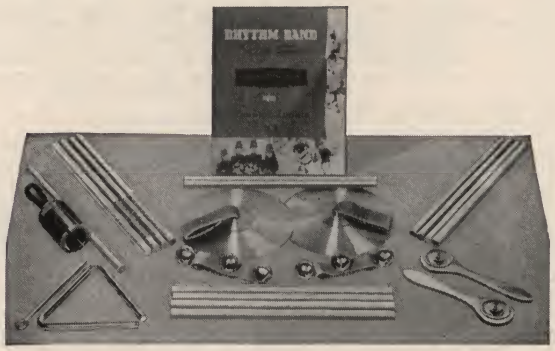
No. 6022. Outfit 35.00

22 PUPIL OUTFIT

6 pair Rhythm Sticks, one notched (pair to pupil)
4 pair Rhythm Sticks, both plain (pair to pupil)
4 Jingle Clogs (one clog to pupil)
2 Sleigh Bells (one to pupil)
2 Cymbals with strap and beater (used singly)
2 Tambourines
1 Triangle with striker
1 Tone Block with beater
Director's Baton and Instruction Book

No. 6021. Outfit 16.75

16 PUPIL OUTFIT



4 pair Rhythm Sticks, 1 notched (pair to pupil)
4 pair Rhythm Sticks, both plain (pair to pupil)
2 Jingle Clogs (one to pupil)
2 Sleigh Bells (one to pupil)
2 Cymbals with strap and beater (used singly)
1 Triangle with striker
1 Tone Block with beater
Instruction Book

No. 6020. Outfit 9.50

40 PUPIL OUTFIT

12 pair Rhythm Sticks, one notched (pair to pupil)
6 Jingle Clogs (one clog to pupil)
4 Sleigh Bells (one to pupil)
2 Castanets on handle
2 Tambourines
2 Snare Boys (drum effects) and beaters
2 Tom-Boys (Tom-Tom effects) and beaters
3 Triangles with strikers
1 pair Cymbals for crash
2 Cymbals with straps and beaters
1 Rosewood Xylophone and mallets
1 pair Sand Blocks
2 Tone Blocks with beaters
Director's Baton and Instruction Book

No. 6023. Outfit 44.75

TUNED RESONATOR BELLS

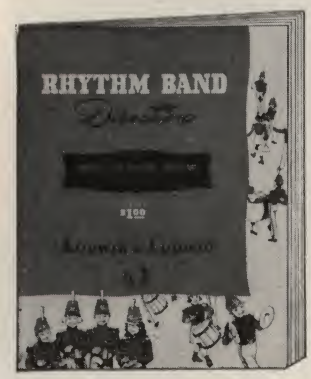
Ludwig Tuned Resonator Bells are made in sets of 8 or 20 Bells, each Bell consisting of an accurately tuned metal bar mounted on an individual wood resonator block. Each set is packed in a box complete with a comprehensive Instructor telling the many ways in which the Bells may be used to the best possible advantage, and with striking mallets for the Bells.

The 8-Bell set, No. 6010, is without any sharps or flats. This set is ample for playing simple melodies without any sharps or flats, and the first group of melodies in the Tuned Resonator Bell Instructor have been arranged especially for the 8-Bell set. With a complete set of 20 Bells practically any selection in any key can be played on the Tuned Resonator Bells.

No. 6010. Resonator Bells, set of 8 ..... 29.50
No. 6011. Resonator Bells, set of 20 ..... 59.50

RHYTHM BAND DIRECTION

Rhythm Band Direction is made easy and pleasant for the teacher with this book, "Rhythm Band Direction." It was written by Miss Lyravine A. Votaw of the Public School Department, formerly of the Bush Conservatory, Chicago. It gives complete instruction on how to hold and play the various instruments. Nine scored arrangements are given in the book, all of which can be obtained on Victor or Columbia phonograph records. Several pages are devoted to the development of child conductors. A simple key shows just where each instrument is used, and its time value is clearly shown. This book is included with all Ludwig Rhythm Band Outfits or may be purchased separately.



Each 1.00

EDUCATIONAL INSET PUZZLES

SIFO TOYS

ALL COLORING IS NON-TOXIC AND LEAD FREE

SIFO INLAY PUZZLES

(Recommended for ages 2–7)

The old favorites step out of the pages of the nursery, animal and religious books to share again the playtime periods for every child. Each puzzle is 9x12" in size and plywood constructed with self-containing tray for durability. Puzzles vary from 12 to 26 pieces. Choose your favorite from Sifo's large selection.

MOTHER GOOSE PUZZLES

(Recommended for ages 3–6)

	Pcs.
1M—Peter, Peter Pumpkin Eater	26
2M—Three Little Pigs	23
3M—Little Bo-Peep	24
4M—The Three Bears	26
5M—Little Miss Muffet	19
7M—Old Mother Hubbard	20
8M—Jack Be Nimble	18
9M—Little Jack Horner	19
10M—Humpty Dumpty	21
11M—The Old Woman in the Shoe	20
13M—Little Red Riding Hood	24
16M—Little Boy Blue	18
17M—The Gingerbread Man	14
18M—Peter Rabbit	19
19M—Three Little Kittens	17
20M—Three Blind Mice	19
21M—Little Black Sambo	18

Weight each 1 lb. 8 oz.

SCHOOL PRICE PER PUZZLE 1.50

CIRCUS PUZZLES

	Pcs.
1C—The Skating Bears	23
2C—The Parading Giraffe	23
3C—The Thirsty Elephant	21
4C—The Jumping Lion	25
5C—The Performing Tigers	25
6C—The Juggling Seal	22

Weight each 1 lb. 8 oz.

SCHOOL PRICE PER PUZZLE 1.50

MISCELLANEOUS PUZZLES

(Recommended for ages 3–5)

	Pcs.
3S—Bunny and the Carrot	12
4S—Santa Claus	19
5S—Robin Redbreast	25
IX—Bronco Buster	19

Weight each 1 lb. 8 oz.

SCHOOL PRICE PER PUZZLE 1.50

RELIGIOUS PUZZLES

	Pcs.
1R—The Good Shepherd	20
2R—Noah's Ark	21
3R—Star of Bethlehem	21
5R—Now I Lay Me Down To Sleep	12

Weight each 1 lb. 8 oz.

SCHOOL PRICE PER PUZZLE 1.50

TRAINING PUZZLE SERIES

(Recommended for ages 3–5)

Manners can be fun and safety can be important. Proper habits are readily accepted when learned in play, thus this series is highly recommended for the younger age group. Size 9x12". From 6 to 22 pieces.

	Pcs.
1V—Good Manners	13
2V—Safety First	22
3V—Washing Them Clean	10
4V—Brushing Them Bright	7
5V—Fruit and Milk	6
6V—Vegetables	7

Weight each 1 lb. 8 oz.

SCHOOL PRICE PER PUZZLE 1.50

ALPHABET PUZZLES

(Recommended for ages 4–7)

A series for the advanced group. The letters drop out as well as the subject, thus encouraging word and subject association. This series, in beautiful design and color, varies from 14 to 38 pieces, size 9x12".

	Pcs.
1A—Car	31
2A—Boat	38
3A—Plane	23
4A—Train	27
5A—Cow	35
6A—Cat	15
7A—Dog	24
8A—Pig	14

Weight each 1 lb. 8 oz.

SCHOOL PRICE PER PUZZLE 1.50

SIFO INSET MAPS

(Recommended for ages 4–10)

Sifo's inset map puzzles. Famous for their simplicity, durability and bright coloring. The 49 pieces are removable leaving the shape of the United States recessed in a plywood tray. This simple outline imprints a mental photograph of our country for the child. When reassembled, the child rapidly recognizes the size of one state to another because of the variety of color due to the high lacquer finish. All pieces are cut along state or national boundaries, Michigan being cut in two pieces, thus accounting for the 49th piece in the United States map. Popular among the young age group as a puzzle eventually stimulating interest in geography. Constructed of $\frac{3}{16}$" plywood and recommended for children from 4 to 10 years.

F-1—United States Map, wt. 3 lbs. School price per map.. 4.00

F-2—South America Map, wt. 3 lbs. School price per map 4.00

No. 55 COORDINATION BOARD

(Recommended for the age group from 18 months to 5 years)

The Coordination Board consists of raised geometric forms and colors with an empty space opposite to correspond to the respective form and color. These shapes being interchangeable teach the child that things are EXACTLY LIKE EACH OTHER and that THEY MATCH EACH OTHER. This is not only a manipulative toy but aids in the discrimination and grouping of simple forms. Size 9x12.

Weight 2 lbs. each, contains 8 pieces.

SCHOOL PRICE PER PUZZLE 2.50

SCULPTURED PUZZLES

(Recommended for ages 2 to 4)

Designed as a manipulative toy. Few bulky, but light pieces enable the child to satisfy his desire to take apart, handle and put together as well as encourage accomplishments. Six-piece puzzle, sculptured to the lines of the body, from ¾" wood. Size 9x12".

1G—Elephant, weight 3 lbs. Contains 6 pieces.
SCHOOL PRICE PER PUZZLE 2.00

2G—Bear, weight 3 lbs. Contains 6 pieces.
SCHOOL PRICE PER PUZZLE 2.00

No. 56 COLOR CUBE BOARD

(Recommended for ages 3 to 5)

The Color Cube Board consists of many raised triangular pieces. These spill out of a tray, thus giving the child a tray in which to construct his design and also affords a frame for his completed work. The four bright colors used encourage imagination and the designing provides restful play. Weight 2 lbs. each. Contains 36 pieces.

SCHOOL PRICE PER PUZZLE 2.00

All Orders will be Priced at Time of Delivery whether Higher or Lower than Catalog Prices

EDUCATIONAL INSET PUZZLES

No. 53 TIMMY TIME PUZZLES:

Recommended for ages 3 to 7.

Timmy Time Puzzle is an educational toy. It is designed to help your child learn the basic numbers, colors and how to tell time. Your child LEARNS BY DOING. The numbers and colors must be in the right sequence or the puzzle will not go together and the clock hands are movable so that the parent can help the child learn to tell time through his natural association of colors and numbers. Timmy Time's smiling face in the center of the color clock offers a challenge to your child and seems to say: "Take me apart and put me together again and LEARN BY DOING." Size 9x12.

Weight 2 lbs., Contains 13 pieces.

SCHOOL PRICE PER PUZZLE $2.00

BUILDUP PUZZLES:

Recommended for ages 2 to 5.

Again bulky pieces for tiny fingers eliminate frustration and encourage accomplishments. To assemble the picture, the pieces of this puzzle slip on a stick in their respective order. The bulky pieces and interest in the completed picture lends itself to the factors involved in the early "Playtime Period of Life." The quality and durability of the toy make it an attractive knick-knack in any child's room. The Jumbo Build-Up is made of 1" thick hardwood and the Junior Build-Up is made of ½" thick hardwood.

	Pcs.
1H—Jumbo Build-up — Peter, Peter Pumpkin Eater	7

Weight each 2 lbs. (Jumbo)

SCHOOL PRICE PER PUZZLE $3.50

Junior Build-Up:	Pcs.
61—King Cole	5
62—Little Red Riding Hood	5
63—Three Pigs	5
64—Peter Rabbit	5
65—Little Black Sambo	5
66—Humpty Dumpty	5

Weight each 8 ozs. (Junior)

SCHOOL PRICE PER PUZZLE $1.50

DESIGN COLOR CUBE BLOCKS:

Recommended for ages 3 to 6.

A box of those useful 1" square colored cubes may be used for designing or as a construction block. Patterns of designs are printed on the inside of the box cover to encourage the younger age group. The older age group find more interest in creating original patterns. Thus this toy gives play equipment to the preschool and elementary groups. Made of pine.

49B—Weight per box 1 lb. 3 oz. Contains 49 blocks.

SCHOOL PRICE PER BOX $1.00

81B—Weight per box 2 lbs. Contains 81 blocks.

SCHOOL PRICE PER BOX $1.50

No. 51 CABINET CASE:

Holds 12 Sifo inset puzzles size 9"x12". A well made wood and Masonite cabinet with natural lacqered finish, built to stand abuse and protect puzzles. Teaches child tidiness and proper care of toys. Ideal for kindergarten and preschool use.

Weight 6 lbs.

SCHOOL PRICE PER CABINET $6.00

JUVENILE JIGSAW PUZZLES: Recommended for ages 3 to 6.

Attractive animal subjects jigsawed to be assembled easily by children from 3 to 6. This series is not cut on lines of object thus affording enough difficulty to hold the child's interest and impart a sense of accomplishment when assembled. Made of 3/16" tempered Masonite to withstand rough handling. These puzzles are packaged two to a box.

1J—	The Puzzled Puppies The Mischievous Puppies
2J—	The King of the Barnyard The Colt and the Calf
3J—	The Piggy and the Apple The Watchful Kittens
4J—	The Quacking Ducks The Wooly Lambs
5J—	The Mare, Colt and Puppy The Cow and the Collie
6J—	The Hungry Little Robins The Squirrel and the Boy
7J—	The Patsy Pig Danny Dog
8J—	The Bobby Bear The Bobo Bunny
9J—	The Dinah Duck The Katy Cat

Weight per box, 1 lb. Each puzzle contains 6 pieces.

SCHOOL PRICE PER BOX $1.00

KINDER CITY:

Recommended for ages 3 to 8.

Kinder City is a gay collection of hardwood blocks shaped and painted to simulate all the buildings of a complete community. The novel container for these blocks is a sturdy fabric base stamped in "city blocks," complete with streets, sidewalks, driveways and lawns. When not in use, the base, made with a drawstring, becomes a convenient bag for the block buildings. Kinder City affords social, imaginative, educative and manipulative values.

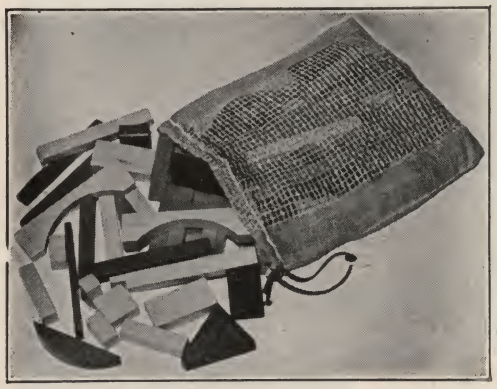
Weight 5 lbs., Contains 90 pieces.

SCHOOL PRICE PER SET $7.50

SIFO TOYS
ALL COLORING IS NON-TOXIC AND LEAD FREE

BUILDING BLOCKS

PRIMARY BLOCKS



50 BLOCKS of the finest hardwood, accurately made for substantial building. They have slightly rounded edges for safety and a large variety of shapes of correct design. Beautifully designed extra strong cotton bag. Colored blocks are in four attractive colors. Plain Blocks are waxed to a smooth hard finish. Same number of blocks in each bag regardless of finish.

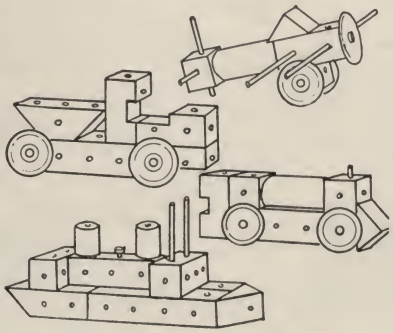
Set No. 150 ..... 1.80

VILLAGE BLOCKS

White pine blocks with entrances, windows, etc., marked in blue with bright finished roof pieces of many shapes, permits the building of a beautiful village of many buildings.

No. 1. 52 pieces per set..... 1.80
No. 2. 100 pieces per set..... 3.00

BLOCKCRAFT



Large 1¾" White Pine Blocks of various shapes are doweled together with a hardwood hexagon dowel which permits easy building and taking apart.

No. 100. 54 pieces per set 1¾". 1.80
No. 200. 89 pieces per set, 1¾". 3.60

EDUCATOR BLOCKS

Set No. 10. Contains 28 blocks, 56 letters. Permitting the spelling of most words.

Per set 1.80

Set. No. 20. Contains 50 blocks, 58 letters, 25 numbers, 5 symbols, for addition, division, multiplying and subtracting.

Per set 3.60

LINCOLN LOGS

The fascinating Log Cabin Building Set, is a typical American Toy for American Girls and Boys.

The Logs are made of hardwood, stained brown and waxed. Gables, chimneys, wheels and roof pieces are brightly colored and a complete four page design book is included in each set. Each set is complete in itself, but the larger sets permit the construction of larger buildings as they contain longer logs and more pieces.

Logs are ¾" in diameter and all sets contain wheels.

No. 1L. 79 pieces and book..... 2.00
No. 2L. 131 pieces and book..... 4.00
No. 3L. 177 pieces and book..... 6.00

CUTOUT LETTERS

This new set contains 122 capital letters A to Z, and 20 figures 0 to 9, all two inches high. There are several of each letter according to frequency used, and there are two of each figure. These characters are die cut in durable colored cardboard. Ideal for making signs, posters, and display cards. May be used for tracing, word and number building and word and number recognition. Packed in an attractive box.

No. 2016. Per set..... .50

CUTOUT LETTERS AND FIGURES

An assortment of 160 individual cut-out letters, one inch high. With this set, words are formed with actual letters. These simple outline letters are fine for teaching the structural design of each letter. Useful for book titles, posters, etc. Letters cut out of bright colored cardboard. Packed in an attractive box.

No. 2011. Per Set..... .35

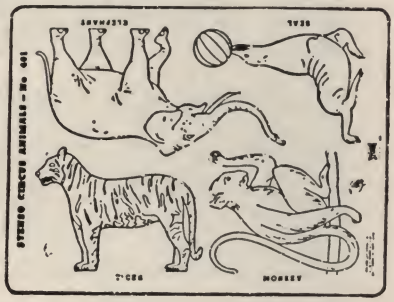
STENCIL SETS

Can be used with crayon, pencil, water color, writing or drawing ink. For making notices, signs, displays, booklets, posters, price cards, flash cards, monograms, and mimeograph stencils. Made of sturdy tan oiled stencil board with inch scale on right side, and five perforations on left to permit guide to fit into any standard looseleaf notebook. Size of guide, 8″ by 10″. Each individual Stenso guide is packed in separate colorful glassine envelope with full directions.

LETTER - NUMBER GUIDES

No. 11.	¾″ Gothic, one page per set	.15
No. 12.	½″ size, one page per set	.15
No. 34.	¾″ size, one page per set	.15
No. 44.	1″ size, two pages per set	.30
No. 64.	1½″ size, three pages per set	.50
No. 84.	2″ size, three pages per set	.50
No. 93.	3″ size, six pages per set	1.00
No. 95.	5″ size, twelve pages per set	2.50

ANIMAL - MAP GUIDES



No. 401. Animal guide set. Set consists of four different animals with inside and outside details to fill in on a single 8″ by 10″ sheet.

Per stencil 10

No. 50. United States map stencil guide. An easy-to-use device for drawing maps of all or any part of the United States. On an 8″ by 10″ sheet.

Per stencil 15

SET No. 309

Contains complete set of nine guides: Nos. 11, 12, 34, 44 A & B, 64, A, B, & C, and map of the United States, No. 50. Comes in a handy colorful portfolio.

Set No. 309 . . . . . 1.25

SET No. 475

Stenso Craft Set. This set contains twelve decorative designs in colors on long lasting treated stencil board, eight assorted crayons and colored paper.

Set No. 475 . . . . 1.00

Stnso Circus Set. Consists of three sheets, 8″ by 10½″, each one containing a number of animal and circus characters. Eight assorted crayons and drawing paper included.

Set No. 469 50

SET No. 100

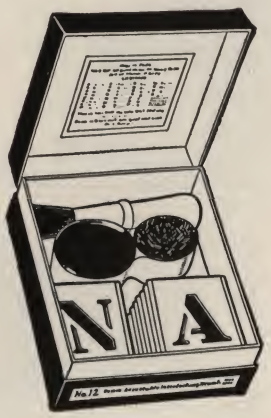
Set of five guides: Nos. 12, 34, 44 A & B, and 50, in a handy colorful portfolio.

Set No. 100 65

INTERLOCKING METAL STENCILS

To serve the various stencil requirements of the school a set of adjustable stencils is needed. The individual letter stencils slide together easily to make up the complete word. Available in Gothic or Roman Style letters from ½″ to 6″. Contains Letters and Figures. Single set 47 characters. Double set 85 characters.

Size	Single	Double
½″	2.10	3.10
1″	2.70	3.70
1½″	3.50	4.60
2″	4.50	6.40
2½″	5.50	7.80
3″	9.50	13.50
4″	12.50	18.00
5″	15.50	24.00
6″	18.50	30.00



BUILT-UP PANEL POSTERS

DRAMA — ACTION — COLOR

BRAZILIAN LIFE

Botafago Bay
Amazon Rubber
Brazil Indians
Coffee

No. 648 ..... .60

AFRICAN LIFE

Victoria Falls
Diamond Mine
Village Life
Wild Animals

No. 650 ..... .60

MEXICAN LIFE

Ancient Ruins
Farm Life
Market Place
The Fiesta

No. 647 ..... .60

DESERT LIFE

Pyramids
Algerian Camp
Oasis in Tunis
Bedouin Home

No. 634 ..... .60

CHINESE LIFE

Toy Shop
Rice Fields
At Dinner
Lanterns

No. 635 ..... .60

LIFE IN INDIA

Royal Elephants
Hindu Shops
Weavers
Public Well

No. 641 ..... .60

AUSTRALIAN LIFE

Sidney Harbor
Native Animals
Logging
Sheep Ranch

No. 649 ..... .60

JAPANESE LIFE

Women and Babies
Family Life
Palanquin
Japanese Ladies

No. 630 ..... .60

SWISS LIFE

Alpine Goats
Going to Pasture
Swiss Farm
Village Life

No. 636 ..... .60

RUSSIAN LIFE

Red Square
Volga River
Winter Scene
Ukraine Farm

No. 651 ..... .60

ESKIMO LIFE

Walrus Hunt
Women Fishing
Dog Teams
Building Igloo

No. 637 ..... .60

DUTCH LIFE

Haarlem
Vollendam
Marken
Zealand

No. 627 ..... .60

DUTCH VILLAGE DIORAMA

In this set, which is 36 inches long, 12 inches high, and 12 inches deep, is a typical Dutch village with the ocean, windmills, houses, shops and people placed in real work and play situations.

Printed on heavy watercolor paper ready for coloring and cutting.

A true to life project that stimulates the imagination and provides hours of story telling material.

No. 6000. Dutch Village Diorama ..... .60

BUILT-UP POSTERS

BUILT-UP POSTERS combine the principles of visual education and child activity in a colorful dramatic manner. Posters are filled with life-like characters at work and play that stir the child's imagination while giving training in neatness, coordination and precision.

Posters are a great aid in teaching history, social science, health and safety. They provide story telling material and atmosphere for holiday projects.

Each set of panel posters consists of four printed backgrounds 12 x 36 inches with colored paper also printed ready for cutting and pasting on keyed backgrounds.

AMERICAN LIFE

AMERICAN DISCOVERIES

Columbus
Balboa
DeSoto
Marquette

No. 642 ..... .60

EARLY COLONIES

Jamestown
Plymouth
New Amsterdam
Philadelphia

No. 643 ..... .60

PIONEER LIFE

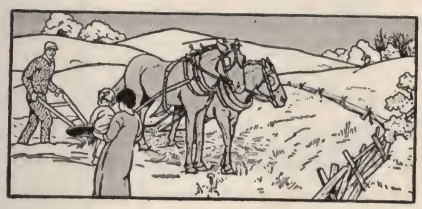
Wagon Train
Starting the Home
Western Town
Placer Mining

No. 644 ..... .60

INDIAN LIFE

Hopi
Zuni
Navaho
Sioux

No. 626 ..... .60



FARM LIFE

Planting
Harvesting
Orchard
Barnyard

No. 633 ..... .60

HOLIDAYS

HALLOWE'EN

Goblins & Witch
Serenaders
A Party
A Parade

No. 645 ..... .60

THANKSGIVING

The Pilgrims
The Feast
First Thanksgiving
Thanksgiving Today

No. 646 ..... .60

SANTA CLAUS

Santa's Work Shop
Santa in Sleigh
Santa and Tree
Christmas Morn

No. 625 ..... .60

VIKING

Viking Ships
On to Battle
The Thing
The Feast

No. 638 ..... .60

CIRCUS

Elephants
Horses
Lions
Clowns

No. 628 ..... .60

RELIGIOUS

EASTER

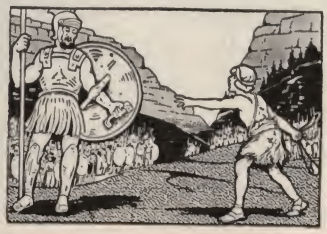
Palm Sunday
Crucifixion
Sealed Tomb
Resurrection

No. 632 ..... .60

HOLY NIGHT

Mary & Joseph
Shepherds
Wise Men
The Manger

No. 629 ..... .60



OLD TESTAMENT

Eight Posters 12"x18"
Building Ark
Tower of Babel
Selling Joseph
Moses and Red Sea
Samson in Temple
David and Goliath
Daniel in Lion's Den
Moses in Bulrushes

No. 639 ..... .60

NEW TESTAMENT

Eight Posters 12"x18"
Carpenter Shop
Christ in Temple
Blessing Children
Good Samaritan
Loaves and Fishes
Prodigal Son
Draft of Fishes
Saul

No. 640 ..... .60

BUILT-UP POSTERS

HISTORIC POSTERS TO BUILD UP

Attractive and instructive panel posters that picture vividly and authentically, scenes of historical interest. Six 12x18 inch panels in each set.

OUR NATIONAL CAPITAL WASHINGTON, D. C.
The Capitol
The White House
Supreme Court Building
Treasury Building
Library of Congress
Arlington Memorial—Amphitheater
Unknown Soldier's Tomb
Set No. 741. Price..... .60

OUR NATIONAL SHRINES
The Alamo
Mount Vernon
Lincoln Memorial
Statue of Liberty
Independence Hall
Mt. Rushmore Memorial
Set No. 740. Price..... .60

GREAT AMERICANS POSTERS TO BUILD UP

Each set contains six posters, 12 x 18 inches, depicting authentically well-known memorials that immortalize the lives of these great Americans.

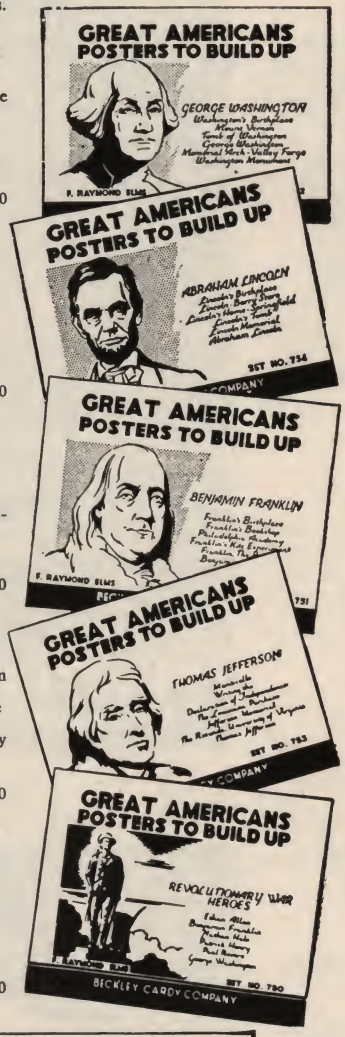
GEORGE WASHINGTON
George Washington
Washington's Birthplace
Memorial Arch—Valley Forge
Mt. Vernon
Washington Monument
Tomb of Washington
Set No. 752. Price.. .60

ABRAHAM LINCOLN
Lincoln's Birthplace
Lincoln-Berry Store
Lincoln's Home—Springfield
Lincoln's Tomb
Lincoln Memorial
Abraham Lincoln
Set No. 754. Price.. .60

BENJAMIN FRANKLIN
Franklin's Birthplace
Franklin's Bookshop
Philadelphia Academy
Franklin's Kite Experiment
Franklin, The Printer
Benjamin Franklin
Set No. 751. Price.. .60

THOMAS JEFFERSON
Monticello
Writing the Declaration of Independence
The Louisiana Purchase
Jefferson Memorial
The Rotunda, University of Virginia
Thomas Jefferson
Set No. 753. Price.. .60

REVOLUTIONARY WAR HEROES
Ethan Allen
Benjamin Franklin
Nathan Hale
Patrick Henry
Paul Revere
George Washington
Set No. 750. Price.. .60



FOUR 18x28-INCH POSTER MAPS IN EACH SET

Teachers all over the country have found that these poster map sets vitalize the teaching of geography. Teaching is simplified, too, because each map deals with only one phase. In the case of the geography sets, Map No. 1 shows countries, states, capitals, most important cities, chief railroad centers, airports and shipping centers; Map No. 2 shows physical features such as mountains, lakes, rivers, forests, and deserts; Map No. 3 shows the chief industries; Map No. 4 shows leading crops and livestock-producing areas. When pupils paste the symbols for hogs and coal in Illinois, coffee and cocoa beans in Brazil, reindeer and glaciers in Alaska, they develop a familiarity with, and a lasting interest in, the country, and at the same time enjoy a creative task.

The maps are printed in black outline on yellow-gray-green construction paper. Water areas are solid blue. The keyed symbols are printed on different colored papers; ready to cut out and paste in their proper outlined spaces. Each set contains four 18x28" maps to build up. Put up in attractive two-color envelope.

Set No. 720. United States
Set No. 721. South America
Set No. 722. Mexico, Cent. America and West Indies
Set No. 723. Canada, Alaska, Greenland, etc.
Set. No. 724. Australia, New Zealand, New Guinea
Set No. 725. Africa

Price each set..... .75

HISTORIC POSTER MAPS TO BUILD UP "THE GROWTH OF OUR NATION"

These large poster maps, 18 x 28 inches, bring the visual teaching method of the popular geography poster maps into the field of American history. The parts of the map are printed on colored papers in simple, black outlines. These parts are keyed so that they are easily pasted into the correct position on the background panels after they are cut out by the pupil. The cutting and pasting activity helps the pupil retain the historical facts.

MAP No. 1 shows the territorial growth of the United States.

MAP No. 2 shows the states formed out of the territories and the dates of entry into the Union.

MAP No. 3 shows the important possessions of the United States.

MAP No. 4 shows the World, including the United States and its possessions, also naval bases leased from Great Britain.

Put up in attractive two-color envelope.

Set No. 730. Price..... .75

BUILT-UP POSTERS

Each set contains ten printed backgrounds 9 x 12 inches with printed color papers ready for cutting and pasting on keyed background. Like panel posters these sets are designed to give the utmost in teaching value while stimulating the child's imagination and increasing his manipulative skills.

MOTHER GOOSE

Colorful pictures to add atmosphere to your story hours. Ten subjects every child should know.

No. 604 60

BIRDS

Red Headed Woodpecker
Scarlet Tanager
Oriole
Swan
Cardinal
Robin
Blue Jay
Cockatoo
Bluebird

No. 602 60

FOREIGN CHILDREN TRANSPARENCIES

Holland
Scotland
Spain
Turkey
Italy
China
France
Japan
Russia
Sweden

No. 570 75

No. 1—Sailing Ships from 1000 A.D. to 1800
No. 2—Steamships from 1800 to the Present
No. 3—Early Aviation from 1783 to 1910
No. 4—Aviation from 1927 to the Present.
No. 707 60

FRUITS

Ten colorful and artistic arrangements of all the common fruits. Excellent health material.

No. 605 60

PILGRIMS

Ten pictures of pilgrims in daily life. Very fine for authentic costume design and home furnishings.

No. 603 60

SAFETY POSTERS

Safety is here taught in a positive rather than a negative way. There are eight very attractive posters 12x18 inches printed on tan construction paper and all necessary cut outs printed on colored paper, fully keyed for easy mounting and in an attractive envelope.

No. 4081. Per set of 8 60

HEALTH POSTERS

Good health habits taught by brilliantly colored posters which the children will enjoy making. Eight pictures 12x18 inches printed on green and blue construction papers. All the necessary colored papers printed in outline to be cut out and mounted on the backgrounds are included.

No. 4080. Per set of 8 60

CHILD LIFE

Ten pictures of children at play covering the four seasons. Provide material for story telling.

No. 600 60

FLOWERS

Daffodil
Tulip
Iris
Narcissus
Blackeyed Susan
Poppy
Goldenrod
Dogwood
Trumpet
Zinnia

No. 601 60

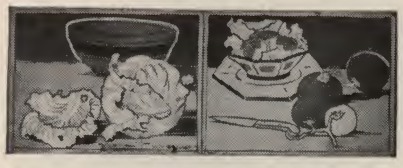
BIRD TRANSPARENCIES

Red-headed Woodpecker
Robin
Cardinal
Meadowlark
Bluebird
Indigo Bunting
Goldfinch
Blue Jay
Baltimore Oriole
Scarlet Tanager

No. 571 75

No. 1—Prehistoric Times to 17th Century
No. 2—18th Century
No. 3—19th Century
No. 4—20th Century
No. 706 60

VEGETABLES



Ten colorful pictures designed to increase the child's liking for vegetables. An unusual aid to your health program.

No. 606 60

POSTERS AND OUTLINE DRAWINGS

HEALTH

Ten 9 x 12 drawings by Miss Cleaveland illustrate the daily health habits educators are most anxious to teach.

No. 615 ..... .25

CHARACTER

Miss Webster has depicted ten character traits such as courtesy, unselfishness, thrift, etc.

No. 617 ..... .25

STRANGE CUSTOMS OF MANY PEOPLES

An unusual and very instructive set by Wyatt J. Jones depicts customs children should know of Arabia, Siam, China, Abyssinia, Albania, Jugoslavia, Sweden, Ethiopia, Hungary and the Eskimo.

No. 540 ..... .30

Educators well know the value of visual education. When combined with an activity such as coloring, the lesson is personalized and becomes a part of the child's experience. The IDEAL outline drawings are designed to apply this sound principle of "seeing plus doing."

THE ECONOMY CHART OUTFIT

The Economy Chart Outfit consists of two charts with pockets for holding letter and word cards; a supply of 275 word cards and several alphabets of small and capital letters —enough to build an extensive primary reading vocabulary; and an indexed filing box for keeping the cards in order—all put up in a compact, attractive package. Such an outfit is indispensable in the teaching of sentence building phonetics, spelling, silent reading, sight reading and oral reading. It provides a means for comprehension tests through "read and do" exercises. It can also be used as a bulletin board and for giving directions. The chart is so constructed that it can be used conveniently as a hand chart as well as a wall chart. The outfit is extremely flexible; in fact, it is possible to build up almost any group of phonograms, words, or sentences desired. The type used is standard chart size. The word and letter cards are two inches high. The dimension of the two charts combined is 17 x 23". Packed in a substantial container with directions for use.

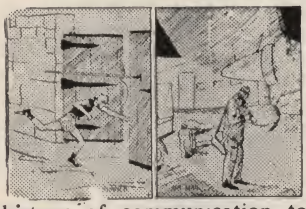
Per chart 1.60

SAFETY FIRST

These ten pictures by Miss Cleaveland will aid you in reducing accidents common with children.

No. 616 ..... .25

PROGRESS OF COMMUNICATION



The history of communication told by drawings which depict the runner, signal drum, smoke signal, pony express, carrier pigeon, telephone, signal flags, wireless, air mail and radio.

No. 595 ..... .30

BODY BUILDER

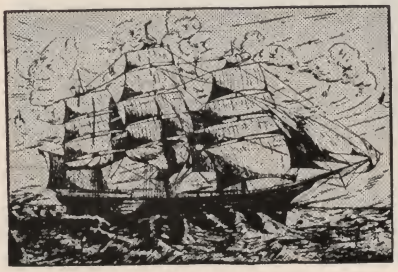
Strong and healthy bodies are necessary for success and the fullest enjoyment of life. Miss Webster has done ten drawings to encourage healthy play.

No. 618 ..... .25

LARGE 12 x 18 POSTERS

MAY BE COLORED OR USED WITHOUT COLORING AS DESIRED

PROGRESS OF TRANSPORTATION IN AMERICA



The development of transportation is vividly shown in twelve black and white drawings showing the stage coach, covered wagon, early train, clipper ship, river boat, freight train, passenger train, lake freighter, steamer, automobiles, dirigible and aeroplane. An accompanying booklet, with a story about each, provides the instructor with all the material necessary to teach the subject.

No. 590 ..... .60

INDUSTRIES AND OCCUPATIONS

These posters furnish a pictorial study of the American working man. There are twelve posters in the set, each containing one central figure typifying an industry or type of occupation. They include the farmer, steel worker, lumberjack, carpenter, miner, machinist, engineer, clerk, telephone lineman, meat inspector, riveter and gas station attendant.

No. 591 ..... .60

OUR WORLD IN PICTURES

LARGE, CLEAR ACTION PICTURES
that tell more than a thousand words

Carefully selected and beautifully reproduced photographs (8½ x 11) tell the complete story of each industry in a thrilling manner that is irresistible to all ages.

Printed on heavy enamel stock, one side only, with supplementary booklet for easy reading. 16 pictures per set. Suitable for all grades.

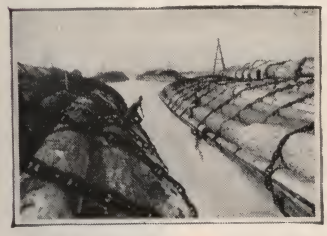
Every reference library should have all these industries. Save money by ordering Economy Unit No. 1 containing all 7 sets No. 4060 thru 4066.

Economy Unit No. 1 ..... 3.80

THE CATTLE INDUSTRY

The raising of cattle on the farm and range, the shipping of cattle, and the preparation of meat, as well as the making of by-products, are all fully shown.

No. 4060. Per set of 16.... .60



THE LUMBER INDUSTRY

The story of the conversion of the trees in the forest into lumber from which is made the house and much that goes into it, is interestingly told.

No. 4061. Per set of 16.... .60

THE IRON-STEEL INDUSTRY

Iron and steel have been responsible for most of the world's progress and development. The pictures in this set show iron being mined, transported, made into steel and then into rails, sheets, etc.

No. 4064. Per set of 16.... .60

THE RUBBER INDUSTRY

The gathering and shipment of latex, making of rubber and fabrication of rubber products such as tires and shoes is clearly shown in this complete set.

No. 4062. Per set of 16.... .60

THE FISHERY INDUSTRY

Fishing is one of man's oldest and most important occupations. Many people are largely dependent upon fish for food. The story of fishing and canning is completely told in this set.

No. 4065. Per set of 16.... .60

THE COTTON INDUSTRY

Cotton is one of our most important products. The growing, picking and conversion of cotton into materials everyone uses is instructively and completely told.

No. 4063. Per set of 16.... .60

THE GLASS INDUSTRY

Glass making, once a lost art, is now a very important industry. Glass supplies both our needs and comforts. The making of glass both by hand and machinery is interestingly told.

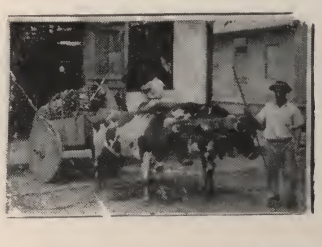
No. 4066. Per set of 16.... .60

MEXICO and CENTRAL AMERICA
96 PICTURES

Ralph Hancock, reporter and lecturer, has compiled what is possibly the most complete set of pictures on the Latin American countries ever published. Mr. Hancock traveled by foot, car, boat, plane and ox cart to find appropriate "shots" to illustrate natives at work and play.

In the 34-page booklet, keyed to the pictures, Mr. Hancock has told in pleasing style an educational story to aid both child and teacher. The 96 illustrations are filed in a keyed index by subjects for quick and handy reference.

No. 4051. Per set $5.00



DECORATIVE STENCILS

Famous People. 16 oil-board stencils in each box. Very interesting, useful and accurately designed. George Washington, Martha Washington, Lincoln, Roosevelt, Coolidge, Franklin, Edison, Alexander Hamilton. Average size 3½ to 6″ high.

No. 7. Per set 60

Children at Play. 16 oil-board stencils in each box. Useful in drawing and ornamental work. A variety of different scenes and sizes.

No. 6. Per set 60

Marine Stencils. Assorted patterns of nautical designs. Including lighthouse ship, yacht, pilot-wheel, sea horse, sail fish, porpoise, anchor. 8 outside cuttings and 8 inside cuttings. Average size 3″ high. Weight ¼ lb.

No. 4. Per set, boxed 60

Religious Picture Stencils. Beautiful and accurate designs cut from heavy waterproof oil-board. Average size of designs 3″ high. Subjects: The Good Shepherd, Jesus Knocking at the Door, Jesus Walking on the Water, Jesus Praying in the Garden, The Widow's Mite, Star of Bethlehem and the Cross.

No. 15. Per set 60

Religious Stencils, Old Testament. Helpful picture lessons. Subjects: Abraham and Isaac, Daniel in the Lion's Den, David and Goliath, Noah, Joseph in Egypt, A Home in Nazareth.

No. 2. Per set 60

Conventional Designs. Each box contains a variety of 16 ornamental patterns useful in stenciling on cloth, paper, lamp shades or ornamental work. Cut from heavy waterproof oil-board. Average size 3″ high. Weight ¼ lb.

No. 14. Per set 60

Garden Flowers. The box contains rose, iris, pansy, tulip, morning glory, calla lily, apple, maple leaf. 8 outside stencils and 8 inside cuttings for tracing around. Heavy water-proof oil-board. Average size of designs 3″ high.

No. 12. Per set 60

Wild Flowers. Each set contains violets, thistle, holly, oak-leaf, tree. 8 outside stencils and 8 inside cuttings. Average size of designs 3″ high.

No. 13. Per set 60

Domestic Animals. Contains horse, cow, dog, cat, goat, pig, rabbit, sheep. Inside and outside cuttings. 16 pieces in each set.

No. 10. Per set 60

Wild Animals. Contains deer, buffalo, bear, giraffe, lion, squirrel, elephant, camel. Cut from heavy water-proof oil-board. Average size of designs 3″ high.

No. 11. Per set 60

Domestic Birds. Contains turkey, chick, hen, duck, rooster, swan, goose, pigeon. Average size of designs 3″ high. Cut from heavy water-proof oil-board.

No. 17. Per set 60

Wild Birds. Contains blue-jay, swallow, owl, cardinal, parrot, eagle, robin, ostrich. Inside and outside cuttings. 16 pieces in each set.

No. 16. Per set 60

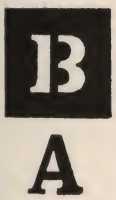
Ornamental Patterns. Each box contains a variety of 16 small designs for stenciling furniture or decorative work where small patterns are needed. Cut from heavy waterproof oil-board. Average size 2″ high. Weight ¼ lb.

No. 8. Per set 60

STENCILS FOR PAPER OR CHALKBOARD

No. 40. ½" plain Gothic letters, outside cuttings. Complete alphabet boxed 60

No. 41. Inside cuttings of No. 40 60



No. 28. A small square letter stencil cut from heavy waterproof oilboard, outside cuttings. Complete alphabet boxed. Size 1" high 60

No. 29. Inside cuttings of No. 28 60

No. 20. A neat square letter stencil cut from heavy waterproof oilboard, outside cuttings. Complete alphabet boxed. Size 1½" high 60

No. 18. Inside cuttings of No. 20 60

No. 24. A tall, narrow condensed plain letter, outside cuttings. Complete alphabet boxed. Size 2" high 60

No. 25. Inside cuttings of No. 24 60

No. 22. A tall plain, unshaded letter stencil, outside cuttings. Complete alphabet boxed. Size 3" high 80

No. 23. Inside cuttings of No. 22 80

No. 44. A 4" Gothic letter stencil. Outside cuttings. Complete alphabet 1.00

No. 45. 4" inside cuttings of No. 44 . . . . . .1.00

SECOND STENCIL BOOK

By Emmy Zweybruck

The art of stenciling is taken up in detail with many illustrations in color. An excellent text for student reference.

Size 8½ x 11". Per copy 1.00

STENCIL AND SILK SCREEN PAPER

No. 1897. E-Z Cut Stencil Paper 12 sheet pkg., 7"x8½" 25

No. 1900. E-Z Cut Stencil Paper 18 sheet pkg., 9"x12" 50

No. 2127. E-Z Cut Silk Screen Paper. 18 sheet pkg., 9"x12" 50

No. 26. A large unshaded letter stencil, outside cutting. Complete alphabet boxed. Size 5" high 1.20

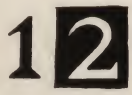
No. 27. Inside cuttings of No. 26 . . . . 1.20

No. 46. A 6" Gothic letter stencil. Outside cuttings. Complete alphabet 1.50

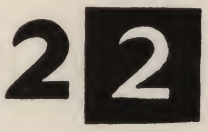
No. 47. Inside cuttings of No. 46 . . . . 1.50

No. 42. Small letters (lower case), outside cuttings for stenciling. Complete alphabet. ¾" high to match 1" capital letters, No. 28 60

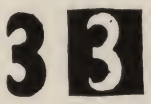
No. 43. Inside cuttings of No. 42 60



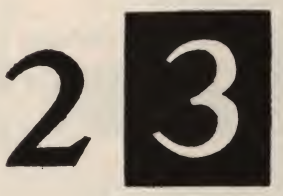
No. 35. Size ½" high. Inside and outside cuttings are in the set 60



No. 32. Size 1" high. Inside and outside cuttings are in this set 60

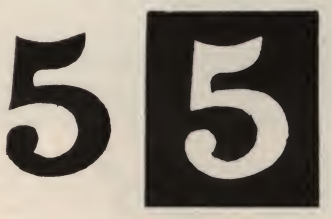


No. 30. 1½" high. Number stencils including cent and dollar signs. Inside and outside cuttings . . .60



No. 31. 2" high. Narrow number stencils including cent and dollar signs. Inside and outside cuttings 60

No. 33. A 3" number stencil with cent and dollar signs. Inside and outside cuttings included 80



No. 36. A 4" numeral stencil with cent and dollar signs. Inside and outside cuttings included 1.00

No. 34. A 5" number stencil with cent and dollar signs. Inside and outside cuttings included 1.20

No. 37. A 6" number stencil with cent and dollar signs. Inside and outside cuttings included 1.50

CHALKBOARD STENCILS

THESE CHALKBOARD STENCILS are prepared for the teacher who desires an outline pattern made by an artist and of subjects that are artistic, decorative and educational. They are all carefully made and when lined in and colored by the teacher, make very beautiful pictures.

We list below a varied assortment of subjects suitable for all grades, subjects and occasions. They are perfectly made, on an exceptionally high grade paper, and may be used many times. The workmanship is the best and this series is unquestionably the best obtainable.

The sizes vary somewhat, according to the subject, but all are large and make attractive pictures. The price is the same regardless of size.

Prices, 12 cents each, $1.20 a dozen

CHILD LIFE CALENDARS

600. Sept., School Again
601. Oct., Jack o'Lantern
602. Nov., Little Puritans
603. Dec., Night Before Christmas
604. Jan., The Snow Man
605. Feb., Dutch Children Skating
606. March, The First Flowers
607. April, Under the Umbrella
608. May, In the Garden
609. June, The Rose Queen

NATURE CALENDARS

610. Sept., Golden Rod
611. Oct., Autumn Leaves and Chrysanthemums
612. Nov., Corn, Pumpkin and Flying Birds
613. Dec., Landscape and Poinsettia
614. Jan., The Deserted Bird House
615. Feb., Icicles
616. March, Dandelion and Pussy Willow
617. April, Tulips and Rabbits
618. May, Violets
619. June, Roses and Bees

HOLIDAY CALENDARS

620. September, Labor Day
621. October, Hallowe'en
622. November, Thanksgiving
623. December, Christmas
624. January, New Year
625. February, Washington and Lincoln
626. March, St. Patrick's Day
627. April, Easter
628. May, Memorial Day
629. June, Flag Day

MAP STENCILS

24x36 inches

916. United States
900. North America
902. South America
904. Europe
906. Asia
908. Africa
910. Australia
912. Eastern Hemisphere
914. Western Hemisphere

STATE—Order by state name.

CHRISTMAS AND NEW YEAR

519. Christmas Bells
560. Holly Border
561. Mistletoe Border
562. Poinsettia Border
379. "Merry Christmas"
381. "Peace on Earth, Good Will Toward Men"
380. "Happy New Year"
700. Jolly Santa Claus
701. Santa Claus and Sleigh
713. Santa Claus and Holly Border, 12"
715. Santa Claus Going Down Chimney
716. Running Santa Claus
528. Boys Making Snowman
703. Christmas Tree
704. Dancing 'Round the Tree
705. The Star in the East
706. The Wise Men
711. Holly, Ribbon and Bells

OTHER HOLIDAY

300. Washington Portrait
549. Wild Rose Border
550. Apple Blossom
821. Group of Rabbits
825. Rabbits and Eggs
511. Tulip Border
100. Tulips
559. Easter Lilies Border
655. Feeding Mr. Turkey
510. Turkey Border
515. Pumpkin and Corn Border
650. Cornfield and Pumpkins
652. Proud Mr. Turkey, 24"
680. Owl and Cat Border
682. Jack o'Lantern Border
683. Flying Witch Border
563. Heart and Ribbon Border
757. Cherry and Hatchet Border
258. Puritans Going to Church

DESK MAP STENCILS

A new series of outline maps in stencil form for the use of schools which do not care to buy the printed maps. The stencils are cut for use on 9x12 inch paper and may be used hundreds of times. The set contains: World, North America, South America, United States, Europe, Asia, Africa, Australia and Canada. In an envelope.

Per set, 9 stencils 30

IDEAL MERIT CARDS

These may be given for meritorious work of any kind. When five are received, exchange them for a Five Merit Card. The Five Merit Cards are exchanged similarly for a Twenty-five Merit Card, and these in turn for a One Hundred Merit Card. These may be exchanged for a Certificate of Honor, 6½x8 inches, very neat, and having spaces for pupil's name, date, teacher's name, etc.

"Good," "Perfect," "On Time,"
One Merit Card. Per 100 20
Five Merit Card. Per 100 25
Twenty-five Merit Card. Per dozen 10
One Hundred Merit Card. Per dozen 15

CERTIFICATE OF HONOR

The ideal Certificate of Honor is designed to give the teacher an inexpensive but outstanding award for individual achievement. It has proven to be an excellent way of inspiring hard work and special effort. It may be used in connection with Merit Cards.

The certificate is nicely designed, printed on 6½x8 inch white paper with space for pupil's name and the teacher's signature.

Certificate of Honor. Per dozen 25

IDEAL BUSY WORK STENCILS

Very simple outline pictures, perforated on bond paper, 5x6 inches, for making sewing cards, patterns for drawing or coloring, illustrated reading lessons, etc. Twenty designs in each set. The designs may be transferred many times to paper, cardboard or cloth.

Set 1. Flowers and Leaves
Set 2. Fruits and Vegetables
Set 3. Animals and Fish
Set 4. Birds and Butterflies
Set 5. Familiar Objects
Set 6. Sunbonnets and Overalls
Set 7. Indian and Eskimo
Set 8. Children and Brownies
Set 9. Thanksgiving and Christmas
Set 10. Washington, Lincoln and Patriotic

Per set 25

SILHOUETTES AND SILHOUETTE PAPER

SILHOUETTE PAPER

Black coated paper for silhouette cutting. Fine black surface, not a gray black so often sold for this purpose.

No. 830. 5x5 in., 100 sheets. Per pkg. .35
No. 831. 6x9 in., 50 sheets. Per pkg. .40
No. 832. 20x24 in. Per doz. 60

RED AND ORANGE

No. 833. 5x5 in., 50 sheets, orange. Pkg. 25
No. 834. 5x5 in., 50 sheets, red. Pkg. 25
No. 835. 6x9 in., 50 sheets, orange. Pkg. 60
No. 836. 6x9 in., 50 sheets, red. Pkg. 60

GUMMED CIRCLES, SQUARES and STARS

GUMMED CIRCLES

In connection with the Ideal Domino Cards, the teacher can use large domino cards of her own making to great advantage. For this purpose we put up gummed circles one-inch in diameter, cut from the six standard colors of coated paper.
Five hundred in strong envelope, assorted

No. 80. Per envelope 35

GUMMED DOTS

Ideal Gummed Dots are ¼" in diameter, cut from gummed glazed paper, in the six standard colors, assorted.

No. 81. 500 assorted, in envelope 18
No. 81R. 100 Red Dots, in envelope . . .12
No. 81B. 100 Blue Dots, in envelope . . .12
No. 81G. 100 Green Dots, in envelope .12

GUMMED SQUARES

These squares are made to use with the Gummed Dots and are ¼" square. Cut from gummed glazed paper, in the six standard colors, assorted, five hundred in an envelope.

No. 82. Per envelope 18

GUMMED STARS

Gummed Stars cut from gummed glazed paper, ½" six standard colors assorted, five hundred in envelope.

No. 83. 500 assorted, in envelope 25
No. 83R. 100 Red Stars, in envelope . . .15
No. 83B. 100 Blue Stars, in envelope . .15
No. 83G. 100 Green Stars, in envelope .15

IDEAL SILHOUETTE DESIGNS

Twenty sheets of black silhouette paper 9x12 inches, with outline drawings, by Penny Ross, printed from new plates on the white reverse side. One hundred animals, birds, children and other designs are included. The designs are to be cut out and used for making posters, borders, etc., which can be made very useful in primary language, number and drawing.

No. 8051. Per set 40

MOTHER GOOSE SILHOUETTES

Twelve artistic drawings in outline of Mother Goose favorites by Penny Ross, printed from new plates on the white reverse side of black silhouette paper. To be cut out and mounted for scrap-book illustrations, posters, schoolroom or nursery borders, etc. The drawings, 9x12 inches, are full of life and carry out the spirit of the familiar rhymes perfectly.

No. 8050. Per set 30

EASY TO CUT SILHOUETTES

For Beginners

Seventy-five animals and birds have been drawn in outline by Penny Ross. The simplest possible outline has been made so that the youngest pupils may cut these delightfully pleasing pictures for mounting. The outlines are printed on the white side of black silhouette paper.

Each set contains 12 sheets, 9x12 inches, put up in a strong and attractive envelope.

No. 8060. Per set 30

FABLES IN SILHOUETTE

Outline drawings by Bess Bruce Cleaveland are printed upon the white side of black silhouette paper and when cut and mounted twelve of the best known fables will be pictured. These will make pleasing decorations and may be used in connection with reading and language lessons.

The set of twelve sheets, 9x12 inches, is put up in a strong kraft envelope with decorated cover. With the directions for mounting are reproductions of each picture as it will appear when completed.

No. 8053. Per set 30

RAINY DAY PLAY

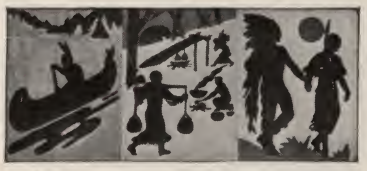
Sixty-three silhouette designs of animals and birds, copied from paintings by Rosa Bonheur, Landseer and others.

Each set contains 20 sheets, 9x12 inches, with designs printed on the white reverse side of black silhouette paper. In an attractive envelope.

No. 8052. Per set 40

HIAWATHA SILHOUETTES

In Three Colors



Hiawatha is one of the children's most popular poems and Penny Ross has made ten attractive drawings of scenes and characters which will greatly aid in the study of this classic.

The outlines for these pictures are printed upon different colors of heavy drawing paper, size 9x12 inches.

The silhouette figures to be cut out and mounted are printed on the coated paper which is furnished in the proper contrasting colors.

Each envelope contains ten different backgrounds and all the material needed to complete the pictures. Full directions for cutting and mounting.

No. 6020. Per set 60

PICTURES TO COLOR

The Ideal outline drawings shown on this page have been done by artists chosen for their ability to draw in a manner appealing to children. The pictures have animation and action while retaining true outline and composition. Each drawing is 6 x 9 inches on white water color paper.

BIRDS TO COLOR

Ten commonly known birds have been drawn from nature by Miss Cleaveland for this set and show the birds in characteristic poses. The coloring can be easily done, as full directions are furnished with each set. The set contains: The Robin, Blue Jay, Oriole, Kingfisher, Meadowlark, Cardinal, Tanager, Goldfinch, Blue Bird, Redstart.

Printed on a good grade of drawing paper, 6x9 inches, 10 drawings in each set, in an envelope.

No. 507. Per set of 10 ..... .20
Per dozen sets 2.00

FLOWERS TO COLOR

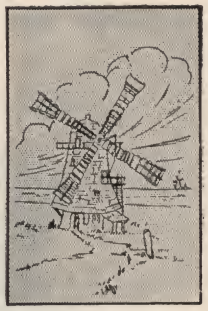
Ten familiar flowers sketched in outline from nature by Bess Bruce Cleaveland. The directions for coloring are simple and any pupil may produce good results. Advanced pupils may make very fine studies with these interesting outlines. The set contains: Tulip, Morning Glory, Wild Rose, Hollyhock, Chrysanthemum, Pansy, Black Eyed Susan, Nasturtium, Sweet Pea, Poppy.

No. 511. Per set of 10 ..... .20
Per dozen sets 2.00

BUTTERFLIES TO COLOR

Penny Ross has drawn outlines for coloring of ten familiar butterflies and the flower upon which they commonly feed. The drawings have been made larger than natural sizes to make the coloring of them easier. The coloring of these drawings will greatly increase the children's interest in these beautiful creatures.

No. 512. Per set of 10 ..... .20
Per dozen sets 2.00



LANDSCAPES TO COLOR

Ten very interesting studies in outline drawn from nature by Bess Bruce Cleaveland. The variety of subjects is sufficient to give very practical work in painting and will interest the beginners, or they may be made into attractive art studies by the advanced pupils.

No. 510. Per set of 10 ..... .20
Per dozen sets 2.00

STRANGE HOMES OF MANY PEOPLES

Children living in modern comfortable homes will be surprised to see what many children call "home." This set of drawings includes the Pueblo, Negrito, Igloo, Sumatra, Kalinga, Tree-House, Papua, Igorot, Congo, Tepee and Log Cabin. Each set contains an interesting story of the house and methods of construction.

No. 513. Per set of 10 ..... .20
Per dozen sets 2.00

CHILDREN OF OTHER NATIONS

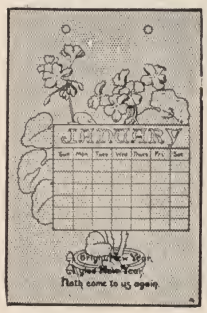
The World War and modern communication has brought us much nearer to other nations. This series of drawings by Miss Cleaveland will help to acquaint children with the native costumes and folk lore of nations about which they hear so much. The set contains children of Alsace, Belgium, Holland, Italy, Spain, Japan, China, Russia, Switzerland, and Scotland.

No. 509. Per set of 10 ..... .20
Per dozen sets 2.00

CALENDAR OF FLOWERS TO COLOR

Twelve beautifully drawn sheets with floral design suitable for each month, together with cover page. An ideal holiday project and gift for home.

No. 506. Per set of 12 ..... .20
Per dozen sets 2.00



RELIGIOUS PICTURES

Penny Ross has made 12 outline drawings of non-sectarian religious subjects that will be an inspiration to children. They are of general interest, suited to any season of the year and make excellent material for the Christmas season.

No. 515. Per set of 12 ..... .20
Per dozen sets 2.00

CHILDREN AND THEIR PETS

A completely new set of drawings showing children playing with those pets most common to all. The drawings are simple but especially charming and attractive. The pets shown are: kittens, love birds, ducks, puppies, guinea pigs, lambs, squirrels, chicks, rabbits, ponies.

No. 508. Per set of 10 ..... .20
Per dozen sets 2.00

CHILD CALENDAR TO COLOR

An entirely new set of drawings for each month of the year showing children at play. Each picture has a calendar block. The complete set makes an attractive gift for the child to take home.

No. 502. Per set of 12 ..... .20
Per dozen sets 2.00

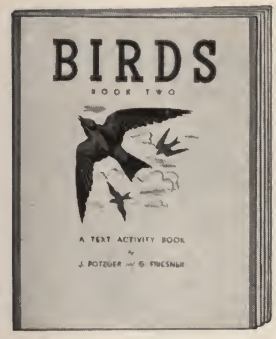
IDEAL HOLIDAY DESIGNS TO COLOR

Children will delight in preparing these ten charming designs as souvenirs, program covers or decorations for the special holidays. The set includes Lincoln Day, Washington's Birthday, St. Valentine's Day, Easter, Arbor Day, Decoration Day, Flag Day, Hallowe'en, Thanksgiving, Christmas.

No. 503. Per set of 10 ..... .20
No. 503S. 25 of any design ..... .40

NATURE AND MUSIC WORKBOOKS

BIRD BOOKS



The forty-five birds included in the three books were selected with the aid of the National Association of Audubon Societies in order that we might have forty-five most common birds, distributed over the widest area of the United States. Each book includes full color illustration of fifteen birds, stories telling of their habits and bird rhymes.

B3003. Book I (Spring Birds)
B3004. Book II (Summer Birds)
B3005. Book III (Migratory Birds)

Per copy.... .39 Per dozen copies.... 3.90

WHAT TREE IS THAT?

These books are intended primarily for the elementary grades. They provide informative material on the leaves, buds, and barks of various common trees. Many class activities in correlation with this study are suggested.

B-3006. Book I contains text illustrations and exercises of fifteen trees.

B-3009. Book II contains text, illustrations and exercises of nineteen broad-leaved trees, twelve evergreen trees, and facts about trees in general.

Per copy.... .39 Per dozen copies.... 3.90

WILD FLOWERS OF SPRING

Wild Flowers of Spring includes the study of twenty of the most common wild plants of Eastern and Midwestern states. Simple, objective tests are provided for each. This study is planned for the second, or spring semester. It may be used by grades five to eight and by Boy and Girl Scout groups and by Hikers' clubs.

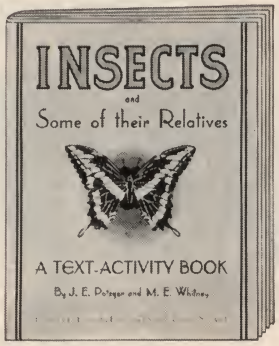
No. 3009. Per copy ..... .39
Per dozen copies 3.90

MY TREE BOOK

There are 32 sheets, 8" x 10½", of outline drawings illustrating 16 common varieties of trees. On one page is a large drawing of a tree. On another, the leaf, twig and fruit are shown, with space for pressed specimens and observations. Complete instructions for the teacher's guidance, a bibliography and valuable suggestions for correlating the study of science with art, reading music, etc., and a separate designed cover are included. Put up in an attractive envelope.

Per copy ..... .60

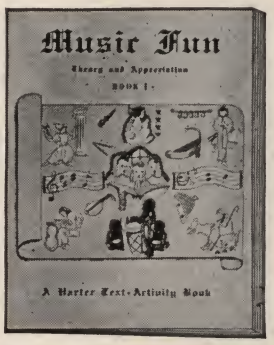
INSECTS



The study of insects, especially of showy moths and butterflies, is becoming increasingly popular in upper grammar and Junior High School grades. The text stresses the economic importance of insects, anatomy, characteristics, and habits of the insects. Sixty insects are shown in line drawings. This book is a valuable aid to the subject of Biology and Nature Study.

No. 3075. Per copy.... .39
Per dozen copies 3.90

MUSIC



MUSIC FUN, Book I. This book introduces basic principles of sound and music and sight reading. Creative work is encouraged, and the instruments of the orchestra are studied. No. B-3000.

MUSIC FUN, Book II. New fundamentals are taught. Various phases of music forms and appreciation are presented. The study of famous composers and folk songs and the activities presented create pleasurable experiences in learning music. No. B-3001.

MUSIC FUN, Book III. Elaborating and reviewing the principles taught in the two previous books, this third book augments the study of theory and appreciation. The study of famous composers and their works is continued. No. B-3002.

Per copy. . . .39 Per dozen copies.... 3.90

NEW MUSIC BOOKS

Let's Go to Theoryland — All Aboard for Theoryland
Adventures in Theoryland

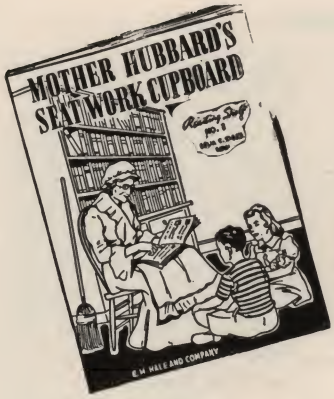
These three companion books give the children in the elementary grades a thorough understanding of the basis of musical theory and, by the use of clever illustrations and novel exercises, make the learning fun. The language of music notation, rhythm, tonality, scales and chords is presented by a musician who is thoroughly familiar with the teaching of children. Each volume is a separate unit and may be used alone. Taken together, the books guide the beginner from the first recognition of the staff through learning the notes and playing songs. By the time the child has completed the third book, he should be able to make a fairly complicated analysis of a familiar song and have had experience in composing simple melodies of his own. Each book has a heavy antique paper cover, size 8 x 10⅝", printed in color.

Let's Go to Theoryland. 48 pages, plus lettered, gummed and perforated notes to paste on the staff. A cut-out keyboard with fingering pointers for use at the keyboard is included.
Per copy..... .52

All Aboard for Theoryland (Revised). 64 pages, including 8 pages with lined staffs for extra assignments in music theory.
Per copy..... .48

Adventures in Theoryland. 48 pages, including space for composition of the childs' own melodies. Per copy..... .44

READING WORKBOOKS



Reading Shelf "A"

"GETTING READY TO READ"

This is one of the latest books in our Mother Hubbard Series and is planned to be used at the beginning of the first grade or the latter part of the kindergarten.

"Getting Ready to Read" has 96 pages in all, 32 of which are printed in four brilliant colors. The book is 8½x10" in size.

Each ..... .78

Reading Shelf No. 1

"1st STEPS IN READING"

This book is designed to supply first grade children with purposeful seatwork involving easy situations for use during the first semester.

Each ..... .78

Reading Shelf No. 2

"1st STEPS IN READING"

This book is designed to follow Mother Hubbard's Seatwork Cupboard Reading Shelf No. 1 and to supply first grade children with purposeful seatwork involving easy reading situations for use during the second semester.

Each ..... .78

Reading Shelf No. 3

"Our Community"

"Our Community" is planned for use in the second or third grade. It deals with real life situations and familiarizes children with their own environment.

Each ..... .78

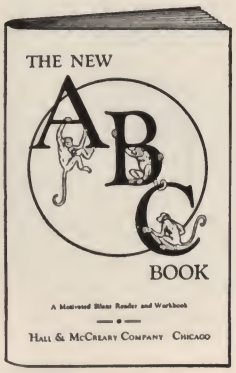
Reading Shelf No. 4

"My Book of Indians"

"My Book of Indians" is prepared for use in the third grade. The course of study of many states provides for the study of Indian life in this grade.

Each ..... .78

THE NEW A B C BOOK



This book is a motivated silent reader and work book for primary pupils. Although it incidentally leads the pupil to a knowledge of the alphabet, it is not its primary purpose to teach the alphabet. The alphabet is simply the subject around which the text is built. In a vocabulary appropriate for first grade pupils.

Per copy ..... .20

PICTURE DICTIONARY

1,200 illustrations, 4,832 words, 480 pages An indispensable book for children learning to read. Each word is shown in type, script, and manuscript. Longer words are divided into syllables. Synonyms help the child to easily and quickly build a vocabulary. Includes 2,154 basic words and 2,678 variants. Experiments in the Hamtramck (Michigan) schools show that pupils using the Picture Dictionary develop 2.09 times faster in reading and 4.35 times faster in spelling. Board binding.

Per Copy 1.50

EASY WORK AND PLAY BOOKS

Reading, coloring, drawing, cutting, matching and pasting new projects — Original stories. Use with any basal readers.

Primer—For low first grade—64 work pages, 9" x 10".

Per copy ..... .24

Book 1—For advanced first grade or low second grade. 96 work pages, 9" x 10".

Per copy ..... .28

HELP FOR SLOW READERS

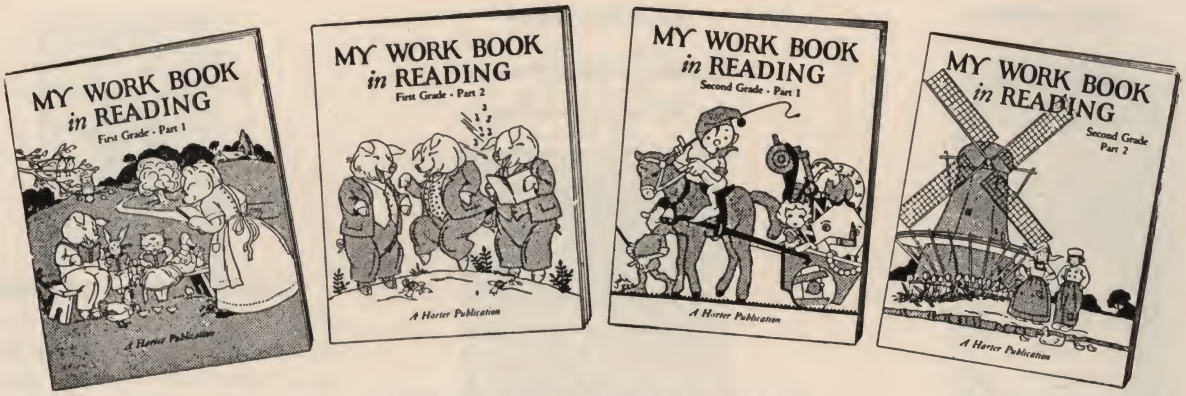
This is a complete set combining the Doghouse Game and the Phonetic Word Drill Cards. Because many children are threatened with failure in reading, this set has been designed especially to help them learn reading readily by the phonetic method. Parents as well as teachers will find this set invaluable in teaching children to combine consonant sounds with vowel sounds to form words quickly and accurately. The Doghouse Game provides fun for one child or a group and contains 12 lessons in the form of a game.

The Phonetic Word Drill Cards provides action and creates interest in presenting 300 words formed with consonant and vowel sounds.

The 32-page informative booklet, "Teaching Phonics in the Home and in the Classroom" by Margaret McEathron, gives a clear understanding of Phonics and how reading can be taught easily and successfully by this method. The complete set is well constructed and packed in a sturdy, attractive box.

No. 2216. Per set 2.90

READING WORKBOOKS



MY WORKBOOK IN READING

FIRST GRADE

BOOK 1, PART 1

Designed so that it can be given to a first-grade child within a few days after the beginning of school. It first introduces the eight colors and follows with self-teaching of words common to approved first-grade vocabulary. 64 pages, over 75 illustrations.

BOOK 1, PART 2

For the second half of the first year. Arranged to immediately follow Part 1, it continues the self-teaching of words and numbers. The difficulty of the content gradually increases to meet the needs of this grade level. 64 pages, with over 75 illustrations.

SECOND GRADE

BOOK 2, PART 1

For the first half of the second grade. The sequence logically follows Book 1, Part 2. Lessons concern color, trees, days of week, facts of Nature and Safety First. Learning is motivated by something to do. 48 pages, 45 illustrations.

BOOK 2, PART 2

For second half of second grade. For use following Part 1. Interesting lessons on mixing colors, months, seasons, telling time, means of travel, facts about nations, homes, birds, and airplanes. 48 pages, 45 illustrations.

THIRD GRADE

BOOK 3, PART 1

For first half of third grade. Follows Book 2, Part 2. Material for Nature Study (seeds, directions, animals), Social Science (children of other lands, story of light), Language Study and Industrial Crafts. 64 pages, 35 illustrations.

BOOK 3, PART 2

For second half of third grade. Communication (origin of the spoken word and alphabet, Indian messages, ship flag signals, Story of the Mail and Communications Today), Language Study and Inventions. 64 pages, 35 illustrations.

Per copy..... .36 **Per dozen copies..... 3.60**

SEE US READ

An introductory reading book which presents simple exercises for the beginning reader. The material stimulates independent activity, and teaches a basic vocabulary through association and by means of pictures. Cutting and pasting work is also provided. Can be used as a combined reader and workbook. Heavy paper covers, 48 pages 8x10½ inches, 62 illustrations.

Per copy ..... .32
Per dozen copies..... 3.20

LET'S READ FOR FUN

SECOND GRADE

Original stories afford opportunity for practice in reading and drill on second grade vocabulary through context, association, and repetition. The stories are followed by exercises that test comprehension and retention. There are many exercises on word building and analysis. Pictures may be colored by pupils.

Heavy paper covers, 48 pages 8x10½ inches, 36 illustrations.

Per copy ..... .32
Per dozen copies 3.20

WE READ BY OURSELVES

PRIMER

The exercises in this book include comprehension, retention, practice in word recognition, and following directions. The concept of independent pupil activity without teacher assistance is furthered by means of the simple and clear directions. Children will enjoy coloring pictures accompanying the exercises.

Per copy..... .32 Per dozen copies..... 3.20

OUR STORY WORK BOOK

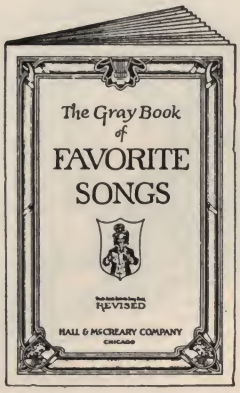
FIRST GRADE

This workbook contains introductory phonetic exercises and beginning work in word analysis. Each lesson has a definite objective and constructive activities dealing with some one phase of reading. Activities planned are within level of grade for which the book is intended. Illustrations may be colored.
Heavy paper covers, 48 pages 8 x 10½ inches, 140 illustrations.

Per copy..... .32 Per dozen copies 3.20

SONG BOOKS – WORK BOOKS

SONG BOOKS



"THE GRAY BOOK" contains a choice collection of songs for chorus and assembly singing, consisting of hymns, college glees, negro spirituals, songs of early days, sea songs, stunt songs, rounds, songs for Christmas and other special days, standard choruses, selections from well-known oratorios, a fine group of unison songs, and a good group for male voices. Because of the wise choice of material and the special attention given to voice range, the book is especially suited for high school and general assembly singing.

1 to 11 copies, per copy ..... .50
2 to 49 copies, per copy ..... .45
50 or over, per copy ..... .40

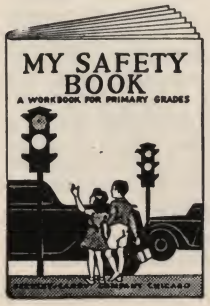
"THE GOLDEN BOOK" is a low priced song book of exceptional merit. It contains over 200 songs, most of which are in standard four-part mixed voice arrangements; some are unison and some are two-part. All piano parts needed are included.

1-11 copies, per copy ..... .35
12-99 copies, per copy ..... .31
100 or more, per copy ..... .28

MY SAFETY BOOK

By Fannie L. Michaels

Primary Teacher, Chicago Public Schools



My Safety Book is a workbook for use in primary grades. It provides practical lessons that correlate with the course of study in safety. The lessons are short, comprehensive and informational in character; positive teaching is stressed.

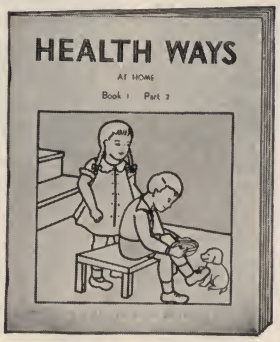
The carefully graded vocabulary, and short, simple sentences, some in rhyme, enable the child in first- or second-grade to work independently. Large outline pictures on every page are to be colored by the pupils. Color directions, when supplied, are printed in different type and placed in a section apart from the safety story so they will not confuse, or distract from the lesson. In many instances the choice of color is left to the child's own initiative. Heavy paper covers, 48 pages, with 59 illustrations.

Per copy ..... .34

HEALTH WAYS

In Reading—Health—Safety

For First and Second Grades



By Philip L. Riley, Directing Supervisor, and Harriet V. Fitchpatrick, Supervisor Physical Education, Cleveland Public Schools.

B-3014—BOOK 1, PART 1

First Steps to Health for first semester. This book illustrates, by words and pictures, simple activities which are beneficial to children's health. Reading level III (second half of easy primer). Sixty-four pages.

Per copy ..... .39
Per dozen copies 3.90

B-3015—BOOK 1, PART 2

At Home for second semester. This book is concerned with the health and safety habits of a child at home. There are exercises pertaining to personal cleanliness, food, exercises, etc. Sixty-four pages.

Per copy ..... .39
Per dozen copies 3.90

B-3016—BOOK 2, PART 1

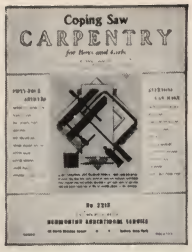
In School for first semester. This book establishes a health education program to better habits and attitudes, so that the school may become an effective agency in forming the basis for a future healthful and happy personal, family and community life. Sixty-four pages.

Per copy ..... .39
Per dozen copies 3.90

B-3017—BOOK 2, PART 2

A Trip to the Farm for second semester. The purpose of this book is to re-emphasize in a simple, enjoyable way the importance of rhythm, responsibility, safety, and a wise use of leisure time. Sixty-four pages.

Per copy ..... .39
Per dozen copies 3.90



COPING SAW CARPENTRY

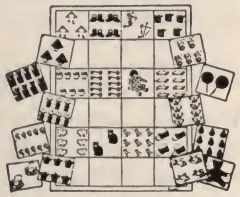
Complete directions and patterns for making 57 articles with a coping saw, such as tie-racks, book ends, door stops, letter openers, etc. Patterns on heavy stencil cardboard.

No. 2213 ..... .85

NUMBER MATCHING FOR BEGINNERS

For Pre-Primary and 1-B Groups

By Katherine Daniels



A set of a dozen 9x12 cards containing fascinating pictures of toys, dolls, and other objects dear to all small children. Eight cards of the set are divided into squares with alternate rows of pictures and vacant spaces. The remaining cards have pictures in each square; these are arranged on the cards to be cut apart and arranged on the cards previously described.

No. 2184. Per set ..... .55

SURPRISE PICTURES

Surprise Pictures. For Grades 2 and 3. By Elemenda Niergarth. The eight 9x12 cards included in this exercise and purposely unnumbered, so that the child gets no hint as to what the completed surprise picture will be. He must read and do what he is told to do in order to solve the problem and make the picture. The silent reading story directions on each card are accompanied by patch patterns which give him a picture of the forms and shapes he is to cut from construction paper, freehand, assemble and paste according to directions.

No. 2140. Per set ..... .40

READING WORKBOOKS

JACK AND JILL

"Jack and Jill", a pre-primer Reading Workbook, may be placed in the hands of a child when he enters first grade.

This book starts by teaching the child the eight colors found in the ordinary crayon box. It is a simple silent reader as well as a work-book because it teaches a child to constantly read complete thought units of material with which he is familiar.

Per copy 40

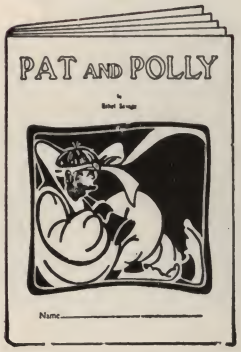
READING FUN

A Read-and-Color Workbook

Provides an interesting variety of reading and coloring for grades 1-2. One section of the book teaches colors and color names through familiar objects such as fruits, animals, birds, etc.; another uses picture-matching with printed and written words, to teach word forms and to build a reading vocabulary; and another part has eighty pictures to cut out and match with sentences. 48 pages, 8½ x 11", with illustrations to color.

Per copy 36

PAT AND POLLY



"Pat and Polly," a reading workbook for the first grade, second semester, logically follows "Jack and Jill," but can be used independently. This workbook is planned so that the child not only learns how to read but how to work and study through the many exercises which involve his careful interpretation, drawing, cutting, coloring, and pasting. 64 pages, 8½ x 11".

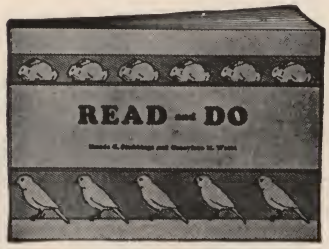
Per copy 40

THE DO-IT READER

The Do-It Reader is an inexpensive silent reader and workbook. It is especially adapted to second grade pupils, but it can be used to advantage in the first half of the third year. The Do-It feature of the book furnishes the comprehension test which makes it a practical silent reader. Besides providing silent reading material with tests, the work involves writing, spelling and phonics. To enable the teacher to give out the work sheets one at a time, each sheet is perforated, so that it may be easily removed from the book.

Per copy 25

READ AND DO



Read and Do is purposely silent reading and seatwork motivated by interesting thought-getting tests. Each lesson includes a picture to be colored according to directions printed on the page with it. The directions are in words common to the reading vocabulary of primary pupils. As the pupils are to READ the directions to themselves and then to DO what the words say, the directions are practical silent reading material. The way in which the pupil follows the directions constitutes a test of his thought-getting ability. Read and Do is bound in strong paper cover, printed in colors.

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FIRST STEPS IN READING

This book is an excellent introduction to reading. As a workbook for beginners it is more practical and effective than a pre-primer. By its use the young pupil is led easily into the realization that words and groups of words represent ideas with which he is familiar. To him each step of the procedure is like an interesting game. Each lesson sheet is illustrated with fascinating pictures of interesting creatures. Pages are perforated and may be removed for use as needed.

Per copy 25

FUN IN PLAYLAND

By Frankie B. Walters

This pre-primer workbook and reader is built around the child's experiences and activities. As a workbook, the activities of coloring, drawing, cutting and dramatization are ideal because they are within the ability of the youngest child. Extremely large type.

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On pages 96 through 97 you will find a complete listing of Duplicator Reading Workbooks. These are modern, carefully planned workbooks, designed to give pupils seat work of highest appeal and to insure mastery of fundamental skills in each important subject. The Reading Workbooks begin with the pre-primer and go through grade 5. Workbooks on Health, Activities and Nature units, as well as Social Studies are also available.

Turn to pages 96 through 97 for complete information.

HELP FOR SLOW READERS

A complete set of tools and reading aids for teaching easily and accurately by the phonic method is now available for the instruction of slow readers. The set consists of a 32-page booklet entitled "Teaching Phonics in the Home and in the Classroom," by a recognized authority; a Dog-House game consisting of twelve lessons in game fashion; and phonetic word drill cards constituting ten word charts, with two sets of words on each chart, making twenty families from which 300 words may be made.

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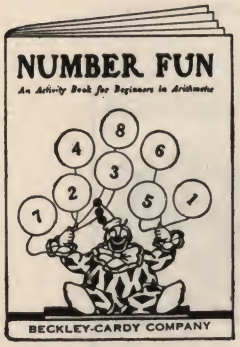
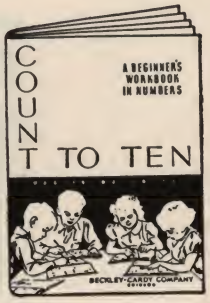
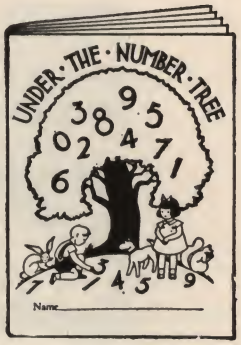
NUMBER WORKBOOKS FOR THE PRIMARY GRADES







EASY NUMBERS

By Sarah R. Golden

First Grade Workbook in Numbers. Based on scientific investigations which show the process by which children acquire number concepts. The material supplies exercises based upon pictures of objects, which are followed by exercises dealing with semi-concrete materials such as dots, and by exercises dealing with the symbols, 1, 2, 3, etc.—excellent background for formal number work. The attractive illustrations stimulate the child's interest in numbers and may be used for coloring. 48 pages, 8x10½", with over 150 illustrations.

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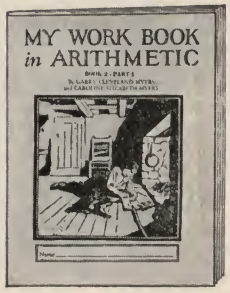

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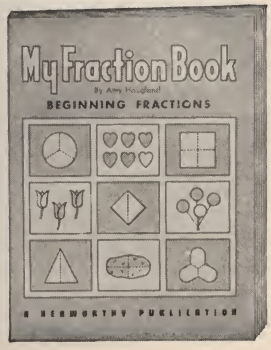

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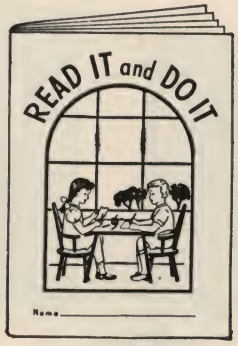

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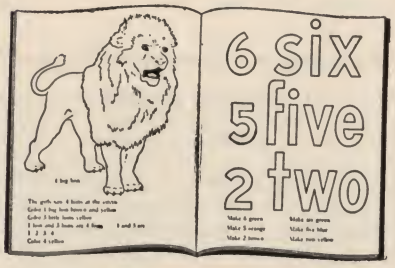

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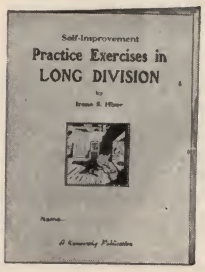

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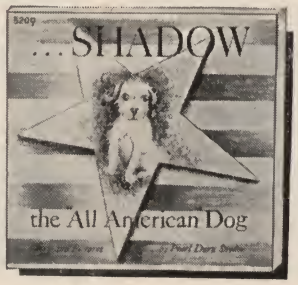

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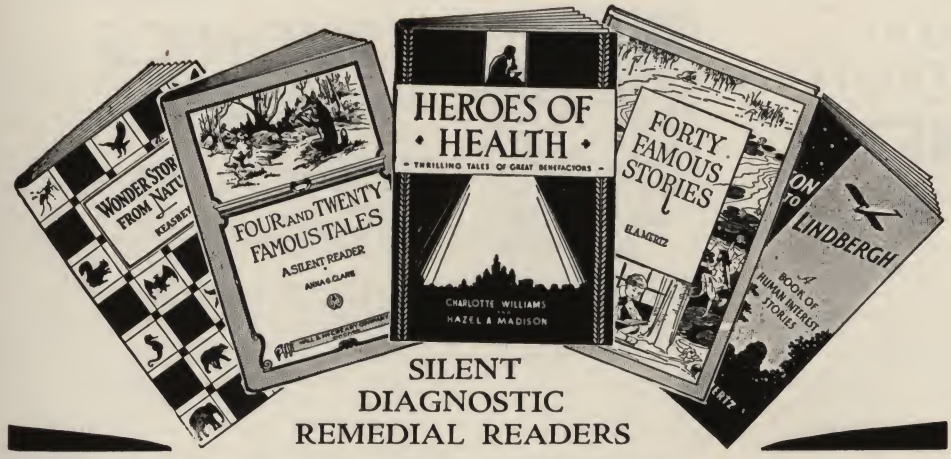

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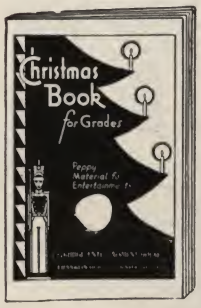

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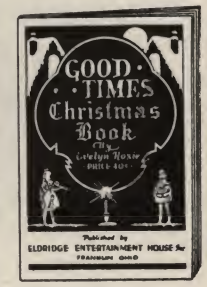

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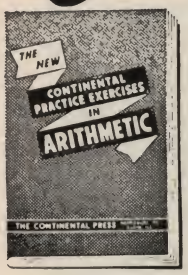

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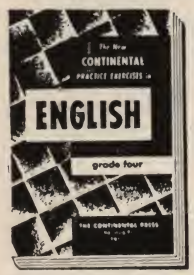

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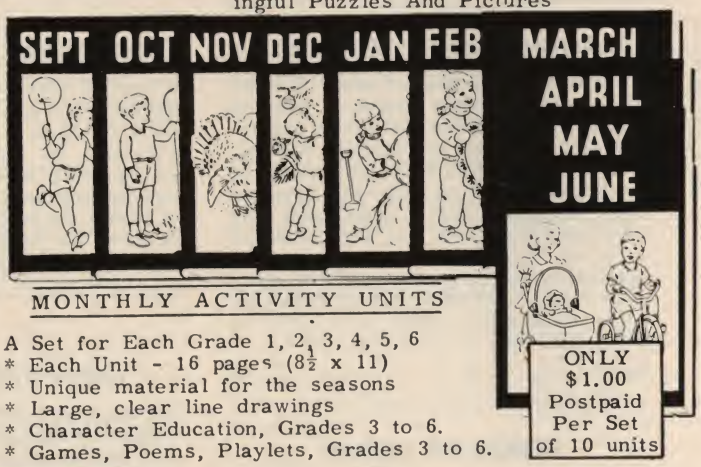

MONTHLY ACTIVITY UNITS

A Set for Each Grade 1, 2, 3, 4, 5, 6
* Each Unit - 16 pages ($8\frac{1}{2}$ x 11)
* Unique material for the seasons
* Large, clear line drawings
* Character Education, Grades 3 to 6.
* Games, Poems, Playlets, Grades 3 to 6.

ONLY
$1.00
Postpaid
Per Set
of 10 units

BASIC FOUNDATION SERIES

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ADDITION and SUBTRACTION of FRACTIONS
MULTIPLICATION, DIVISION of FRACTIONS
WORKING WITH DECIMALS
WORKING WITH PERCENTAGE

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MASTERING PARTS OF SPEECH
MASTERING GOOD USAGE
MASTERING CAPITALIZATION, PUNCTUATION

10 or more
20c each
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Each Book Contains 32 Pages ($8\frac{1}{2}$ x 11)

THE NUMBERLAND SERIES

COME TO NUMBERLAND (96 pages each)

Grade 1 - Part 1
* Numbers 1 to 10
* Recognizing and writing numbers 1 to 10

Grade 1 - Part 2
* Numbers 1 to 20
* Informal addition

IN NUMBERLAND (96 pages each)

Grade 2 - Part 1
* Concrete and abstract number combinations to 10

Grade 2 - Part 2
* Combinations to 20
* Reading, writing and matching of numbers

WORK IN NUMBERLAND (96 pages each)

Grade 3 - Part 1
* Computation
* Problem Solving
* Add. & Subtraction

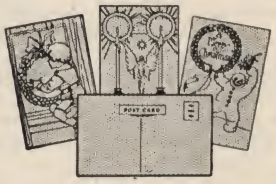
Grade 3 - Part 2
* Mult. & Division
* Ex. & Trial Problems
* Frequent Reviews

(10 or more)
27c each
Single Copies 32¢ each

All Orders will be Priced at Time of Delivery whether Higher or Lower than Catalog Prices

SEATWORK

WATER COLOR POST CARDS



These outline drawings for coloring are printed on heavy water color board, 3¾ x 6 inches, and on the reverse side is a post card form for addressing and mailing.

Each set of twelve cards with instructions for coloring is put up in a heavy envelope printed with a special cover design.

Christmas—12 Designs

No. 550. Per set ..... .25
Per dozen sets 2.50

Thanksgiving—12 Designs

No. 551. Per set ..... .25
Per dozen sets 2.50

Hallowe'en—12 Designs

No. 552. Per set ..... .25
Per dozen sets 2.50

Easter Rabbits—12 Designs

No. 553. Per set ..... .25
Per dozen sets 2.50

ANIMAL BOXES AND BASKETS

Mr. Ross has prepared a new series of boxes and baskets, using animals and birds as the decorative motif. The shapes and styles are novel, varied and artistic. Printed on high grade drawing paper, 9 x 12 inches. Put up in a kraft envelope.

No. 6091. Per set ..... .30
Per dozen sets 3.00

PENNY ROSS BOXES AND BASKETS TO COLOR AND CUT

In this set of twelve boxes and baskets will be found a variety suited to the seasons of Christmas, Thanksgiving, Hallowe'en and Easter.

There are twelve original novel and artistic designs, each making a serviceable and permanent article. Printed on high grade drawing paper, 9x12 inches. Put up in a strong envelope, attractively printed.

No. 6090. Per set ..... .30
Per dozen sets 3.00

FIFTY DRAWINGS TO COLOR

Contains fifty different designs, printed on separate sheets of water color paper, 6x9 inches. These drawings are mostly in outline, and are from pen drawings made especially for coloring with water colors or wax crayon. The designs include animals, flowers, leaves, children, etc.

No. 501. Per set of 50 ..... .50
Per dozen sets 5.00

FLOWER ARRANGEMENT STUDIES
By Penny Ross

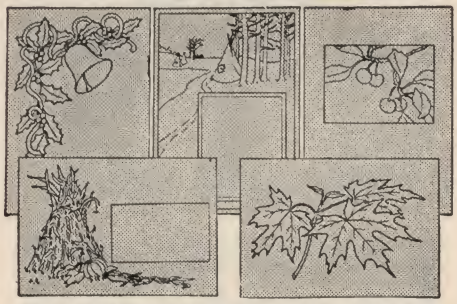
The proper and artistic arrangement of flowers is a subject which few understand, but it is quite worthy of careful study.

For this set of twelve drawings in outline Mr. Ross has selected a variety of common flowers which are to be colored, cut out and pasted into the vase or basket, which is also printed upon the sheet with the flowers. Full instructions for coloring and arranging are given as well as some very helpful suggestions as to the proper grouping of flowers by color.

Printed upon high grade drawing paper, 9x12 inches, and enclosed in a heavy and attractive envelope.

No. 5600. Per set ..... .30
Per dozen sets 3.00

IDEAL BOOKLET COVERS TO COLOR



Twelve artistic and attractive covers for coloring in water colors or wax crayon. These are engraved from pen drawings; printed on a high grade of tinted water color paper and folded with design on front, each making a complete cover for a booklet 5x7 inches.

1. Lilies
2. Landscape
3. Cherries
4. Hiawatha
5. Goldenrod
6. Japanese
7. Maple Leaf
8. Holly and Bell
9. Wild Rose
10. Autumn
11. Valentine
12. Chrysanthemum

No. 525. Assorted, per dozen ..... .30
No. 525 S. Any design, per 100 ..... 2.40

IDEAL BLOTTER COVERS TO COLOR

These simple designs are printed on good white water color paper, 4x9½ inches, the size of the ordinary blotter, and punched near the end with two round holes. They are very easily colored by pupils of the lower grades, and when tied through the perforations with colored cord are pretty enough to please anyone.

1. Violet
2. Merry Christmas
3. With Christmas Greeting
4. Brownie
5. Sunbonnet

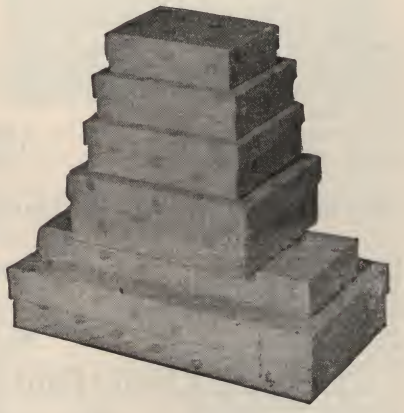
No. 504. Per dozen, any assortment ..... .15
Per 100, any assortment 1.00

BLOTTERS

Good quality blotters, assorted colors, cut to size and punched for covers.

No. 504 B. Per dozen ..... .20
Per 100 ..... 1.00

EMPTY BOXES

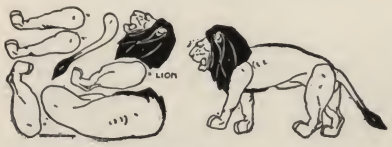


Strong, well made boxes for all kinds of storage. Excellent for gift and art projects. A size for every need.

		Each	Dozen
No. 8	4 x 2¾ x 1⅛	.07	.70
No. 4	4⅝ x 3⅝ x 1¼	.08	.80
No. 14	5 x 4 x 1½	.09	.90
No. 12	6 x 4½ x 2	.11	1.10
No. 5	9¼ x 3⅛ x 1	.11	1.10
No. 6	10¼ x 5¼ x 2	.15	1.50

STAND-UP AND JOINTED TOYS TO CUT AND MAKE

JOINTED ANIMALS



Ten animals drawn by Bess Bruce Cleaveland, in sections to be cut out and fastened together, making movable toys. This is not a set of grotesque outlines, but is true to nature and when the animals are colored according to directions the set has a real educational value.

The animals in the set are: The Monkey, Lion, Giraffe, Camel, Rhinoceros, Kangaroo, Fox, Horse, Cow and Sheep. Printed on a good quality of cardboard, stiff enough to stand alone, size 7x9 inches. Fasteners furnished with each set, which is put up in an attractive box.

No. 6050. Per set 75

JOINTED STORY BOOK ANIMALS

For this set Miss Cleaveland has chosen ten favorite animals known to all children, including Mother Hubbard's Dog, Brer Fox, Puss in Boots, Teddy Bear, Brer Rabbit and five others equally popular.

Each subject is printed upon good quality of cardboard. They are to be cut apart and made into movable toys by use of fasteners furnished with each set. Directions for making are furnished. In an attractive box.

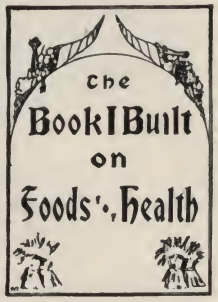
No. 6051. Per set 75

CROWN PAPER FASTENERS

Small brass fasteners used for cut-outs, construction work and for many other purposes in kindergarten work. One-fourth inch long, small round head.

No. 5. Per box of 1,000 . . . . . 3.25
No. 5E. Per envelope of 100 35

THE BOOK I BUILT ON FOODS FOR HEALTH A WORK BOOK



Every child should learn early the kinds of foods and their effect upon the body. This cannot be accomplished by a "cut and dried" statement of the functions of Vitamins and Proteins. It can, however, be done, as this illustrated book does it, by stories about Robert and Ruth and their experiences with food, supplemented with true-false, multiple answer, and yes-no questions. In addition there is a blank page after each story with suggestions for drawings or magazine cutouts to be pasted in, allowing the child to develop in his own way the knowledge gained from the story.

A complete sixteen page work book on foods printed on white construction paper, 9x12 inches, with an attractively decorated cover of colored paper.

No. 417. Per book 25
Per dozen 2.50

HUMPTY-DUMPTY STAND-UPS

By Estelle Perkins

The set consists of twelve fat and jolly subjects drawn in outline, to be colored, cut out, folded and fastened as real stand-up toys.

Printed on a good quality of white construction paper, 7½x9 inches, 12 drawings in each set, in a strong kraft envelope, with very complete directions.

No. 6060. Per set 30

MOTHER GOOSE STAND-UPS

By Estelle Perkins

Twelve pleasing outline drawings of popular Mother Goose subjects, to be colored, cut out and folded into toys that will stand usage. Uniform in style with the Humpty Dumpty series.

Printed on a good quality of white construction paper, 7½x9 inches, 12 drawings in each set, in a strong kraft envelope, with very complete directions.

No. 6061. Per set 30

MODEL VILLAGE FOR SAND TABLE AND PROJECT WORK

This set of outline drawings for coloring, cutting and making was drawn by Penny Ross. The set consists of 10 buildings, public and private, band stand, fountain, flag pole, traffic signals, an automobile and 18 figures of men, women and children, which are to be made into small stand-ups.

Sixteen sheets, 6x9 inches, printed on heavy white construction paper, full instructions for coloring and making, in a strong envelope with special decorative picture.

No. 4050. Per set 30

ANIMAL STAND-UPS

These animals in outline for coloring are printed on heavy drawing board, 9x12 inches. The relative size of each animal has been carefully maintained and they are anatomically correct. When colored and cut out, the two sides are pasted together and the bases folded out and reinforced. They are very rigid and durable and may be used in sand table projects.

WILD ANIMAL STAND-UPS

This set includes the Elephant, Rhinoceros, Moose, Buffalo, Camel, Polar Bear, Giraffe, Zebra, Lion and Kangaroo.

No. 6062. Per set 40

DOMESTIC ANIMAL STAND-UPS

The animals in this set are: 2 Work Horses, 1 Carriage Horse and Mule, 1 Bull and Cow, 2 Sheep, 2 Goats, 2 Pigs and 1 Dog.

No. 6063. Per set 40

STRAWS AND PAPER FOR STRINGING

Our straws are the seamless wax paper straws which do not crack or break, and may be used many times. Papers for stringing are cut from engine paper, and of a variety of interesting shapes and colors.

No. 7020. An attractive partitioned box containing 500 straws and sufficient extra bright colored papers 60

No. 315. 100 paper straws, 8½ inches long, per pkg. 30

No. 317. 1,000 paper straws, ¾ inch long, per box 60

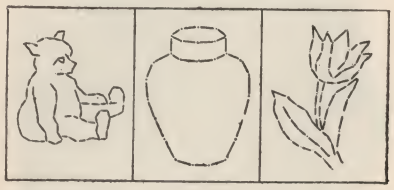
No. 325. 1,000 colored paper forms, assorted squares, circles and diamonds, in an envelope 40

SEWING CARDS

Our outline pricked sewing cards are made with simple and attractive designs printed in a very light gray ink on extra quality cardboard and carefully pricked. The assortment of designs is adapted to varied ages and the subjects well graded. Put up in extra strong boxes.

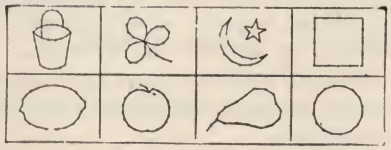
A new set of 12 pricked sewing cards, which make souvenirs for Hallowe'en, Thanksgiving, Christmas, St. Valentine's Day, Washington's Birthday, Easter, printed on cardboard 5½ x 5½ inches, 12 different designs, in an envelope.

Set H. Per set ..... .30



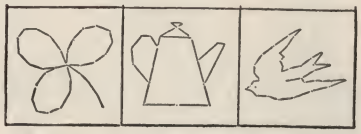
Cards 4 x 5½ inches. Assorted designs. 100 cards in a box.

Set C. Per box ..... .80



These cards are for coarse sewing by beginners and have holes punched way through. Printed in outline on cards 4x5½ inches, 16 designs and 100 cards in a box.

Set P. Per box 1.00



Cards 3½ inches square. Assorted designs. 100 cards in a box.

Set B. Per box ..... .60

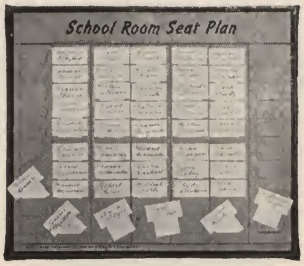
Circular cards, 3¼ inches diameter. Assorted designs, 100 cards in a box.

Set A. Per box ..... .65

An exceptional value. Fifty well selected subjects printed but not pricked.

Set I. Per set 50 designs, in envelope with directions ..... .35

SCHOOL SEATING PLAN



With this seating device it is possible to reproduce the actual seating arrangement of classrooms. The plan is flexible in principle so that the teacher may change the grouping of her classes according to their varying abilities. The cards in their slits represent the actual seats in use. This plan allows for up to 70 pupils and is 8½" x 10½" in size. It is heavily constructed and is delivered in an envelope with 80 blank name cards.

No. 2141. Plan with 80 cards .. .50

No. 2141A. Additional pkg., 80 cards .15

WEAVING MATS

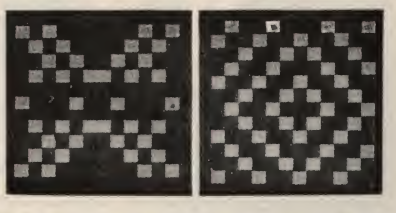
WEAVING FRINGES

These fringes are made of assorted standard colors of construction paper, cut into strips 7 x ½ inches.

No. 129F. 144 assorted fringes, pkg. .. .25

Per dozen pkgs. 2.50

STANDARD COLOR SERIES

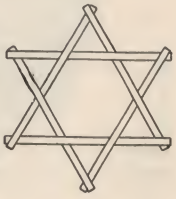


Made of construction paper using the six standard colors for fringes and six other colors for mats. The slit mats are 6½x6½ inches. The printed fringes are ½ inch wide. Material for 24 finished mats in an envelope.

No. 128. 24 mats, 24 fringes, assorted in an envelope ..... .45

No. 126A. 24 brown mats, 24 fringes made of the six standard colors in an envelope ..... .50

WEAVING SLATS

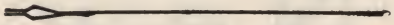


These slats are made of selected hardwood of even thickness and carefully cut to a uniform width. The colored slats are in the six standard colors.

No. 300. 100 slats 10 inches long, hardwood, plain ..... .25

No. 301. 100 slats, 10 inches long, hardwood, six colors ..... .35

WEAVING NEEDLES



These steel weaving needles are recommended for use with mats and fringes made of coated paper. The paper is held firmly, the weaving easily done, and the danger of tearing is much less.

No. 1300. Each ..... .18

Per dozen 1.80

INDUSTRIAL WEAVING MATS

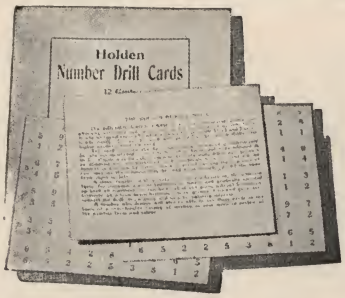
Mats of one color with variety of colored fringes. Mats are 7x7 inches slit ½ inch. Fringes are printed for ease in cutting.

No. 125. 25 gray mats, 25 fringes, assorted, in an envelope ..... .50

No. 126. 25 brown mats, 25 fringes, assorted, in an envelope ..... .50

LETTER • FRACTION • NUMBER WORK

HOLDEN NUMBER DRILL CARDS



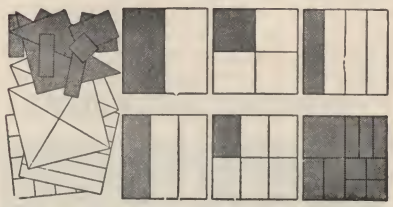
The Holden Drill Card is a very convenient device for affording abundant and varied drill in the fundamental number facts. It will be found especially advantageous for use with Third and Fourth grade classes.

Each card contains the 45 combinations promiscuously arranged in columns and so keyed that the work may be varied. This set of cards is especially adapted to speed drills and contests between individuals and groups.

A set consists of twelve cards printed in plain type on high grade manila, 3¾ x 4¾ inches, in an envelope with full directions for use.

No. 258. Per set ..... .25
Per dozen sets 2.50

FRACTIONS MADE EASY

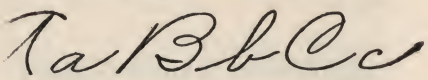


The basic unit of this set is a cardboard square, 4x4 inches. There are twelve such units each ruled differently to give a graphic basis for halves, quarters, eighths, sixteenths, thirds, sixths, and twelfths. The fractional parts provided in colored cardboard are placed on the basic unit by the pupil in accordance with the problems included with the set.

This set stimulates the ever present human desire to work with the hands and so teaches through the eye that 2/4 equals ½, or that 4/16 plus ¼ plus ½ makes 1 unit.

No. 259. Per box ..... .40
Per dozen boxes 4.00

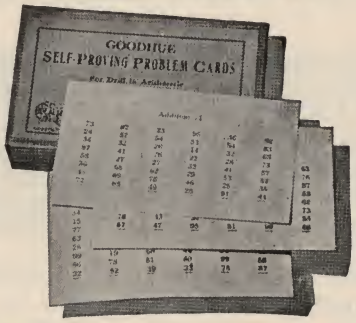
IDEAL ALPHABET COPY SLIPS



A copy slip containing the entire alphabet, both capital and small letters, numerals and punctuation marks, in beautiful, clear script. To be placed before children learning to write, as a reference card of correct forms. Printed on heavy manila paper, 9½ x 2½ inches.

No. 265. Per set of 12 ..... .15
Per dozen sets 1.50

SELF-PROVING PROBLEM CARDS

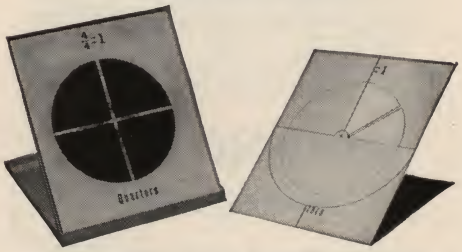


The self-proving feature makes these cards of special value to both teacher and class. Each card has a different set of problems. There can be no copying or exchanging of results. When the papers are inspected by the teacher, a glance at each problem is sufficient to determine its correctness.

There are 100 cards, printed on a strong manila, 3x5 inches, with full directions for teachers' use.

No. 257. Per set, in box ..... .75
Per dozen sets 7.50

IDEAL FRACTION WHEEL

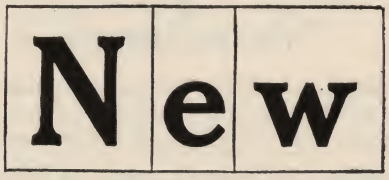


The conception of fractions is simply and forcefully illustrated by the progressive division of a circle or "pie". Fractional relationships can be quickly and clearly illustrated by means of the revolving disk.

Set includes 1/2, 1/4, 1/8, 1/16, 1/3, 1/6, 1/9, 1/12, 1/5, 1/10. All parts made of strong ticket board in box with self-contained easel for easy display.

No. 263. Per box 2.00
Per dozen boxes 20.00

IDEAL LARGE TYPE LETTER CARDS

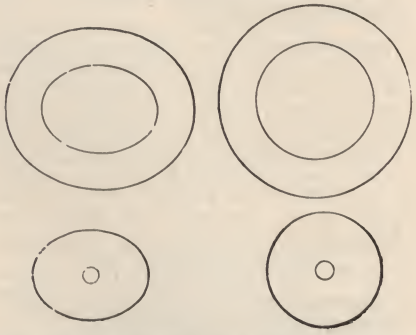


Type Reduced

Contains 382 assorted capitals, small letters and punctuation marks printed on both sides of tough heavy gray cardboard. Very easy to read and handle.

No. 248. Per box ..... .35
Per dozen boxes 3.50

IDEAL RAFFIA FRAMES

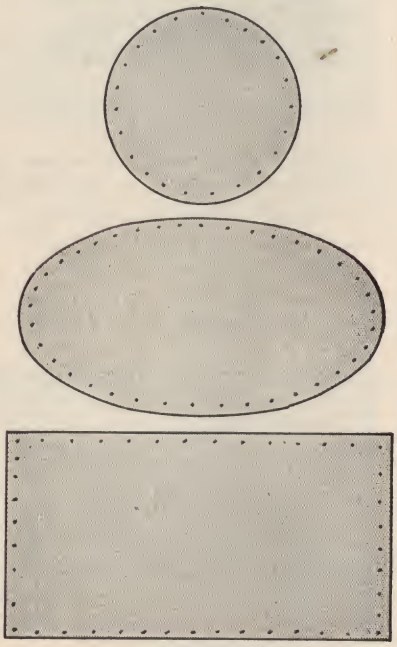


For use in simple raffia weaving. Each frame consists of two parts, made of extra heavy cardboard. The larger part may be used for picture frames and the smaller for basket foundations.

No. 90. Round Frames, 5 inches in diameter, 1 inch margin. Per dozen sets .30
Per gross sets 3.00

No. 91. Oval Frames, 5¼ x 4½ inches, 1 inch margin. Per dozen sets ..... .30
Per gross sets 3.00

BASKET BOTTOMS (Plywood)



Ideal basket bottoms are all bored to take either No. 4 or 5 reed.

Round		Oval	
3"	.07	4" x 8"	.15
4"	.10	6" x 10"	.23
5"	.12	8" x 14"	.40
6"	.16	10" x 16"	.50
8"	.22	12" x 20"	.75
10"	.30		
12"	.40		

Rectangular

8" x 14"	.35
10" x 16"	.45
12" x 20"	.70

All Orders will be Priced at Time of Delivery whether Higher or Lower than Catalog Prices

LETTER, SENTENCE AND PHONIC CARDS

IDEAL LETTER CARDS

A careful assortment of capitals, small letters and punctuation marks printed on both sides in large clear type on tough ticket board that is easy to handle and will not curl.

No. 247. Per box ..... .20
Per dozen boxes 2.00

IDEAL LETTER CARD STRIPS

Same as above, but printed on strips of cardboard ¾ of an inch wide; the letters are to be cut apart by the children.

No. 247S. Per set ..... .10
Per dozen sets 1.00

PRINT-SCRIPT WORD BUILDER

A set of letter cards printed in a modern, attractive type on heavy manila cardboard with the letters duplicated in medial script on the reverse side. Over 370 evenly cut cards in a strong, neat cardboard box.

No. 260. Per box ..... .30
Per dozen boxes 3.00

PRINT-SCRIPT SENTENCE BUILDER

This set of words for sentence making consists of over 210 cards printed in bold, clear, modern type on heavy manila cardboard with the words duplicated in medial script on the reverse side. Put up in a neat, strong cardboard box.

No. 261. Per box ..... .30
Per dozen boxes 3.00

IDEAL SENTENCE BUILDER

A selected list of 250 primer and first reader words printed on both sides of tough ticket board that is easy to handle and will not curl.

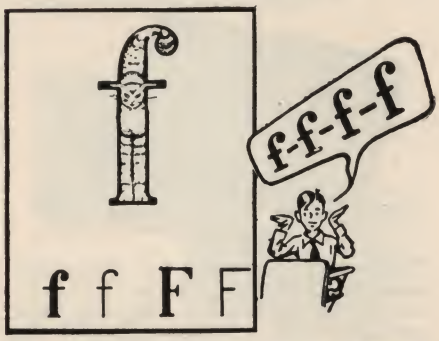
No. 245. Per box ..... .20
Per dozen boxes 2.00

IDEAL SENTENCE BUILDER STRIPS

Ideal Sentence Builder in strips same as above, but printed on strips of cardboard, to be cut into single words by the pupil.

No. 245S. Per set ..... .10
Per dozen sets 1.00

PHONIC TALKING LETTERS



The card for the letter "f" shows an angry cat who says "f-f-f-f-". The story tells the pupils to imitate this sound while holding their hands out from their heads like the big ears of the angry cat.

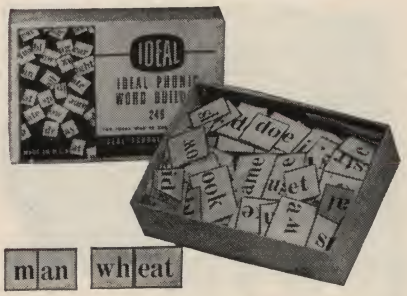
A completely new approach, that fascinates the children, has been used in this set which combines visual instruction, story telling and pupil participation.

Each letter or phonic is shown with a phantom character which affixes the proper pronunciation in the child's mind. The story on the back of each card is told by the teacher to stimulate the imagination and invite participation in recitation and acting out the characterized sounds.

Cards are approximately 6 x 7½ inches printed on white stock.

No. 262. Per set 1.00

IDEAL PHONIC WORD BUILDER



Consists of 260 consonants, phonograms and final combinations affording drill for first readers. May be used with Ideal Letter Cards.

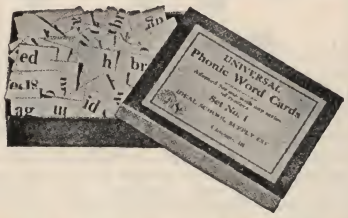
No. 246. Per box ..... .20
Per dozen boxes 2.00

PHONIC WORD BUILDER STRIPS

This set is the same as the above, except that it is printed on strips ¾ inch wide, ready for cutting by the pupil.

No. 246S. Per set ..... .10
Per dozen sets 1.00

UNIVERSAL PHONETIC WORD CARDS



Adapted for Use with Any Series of Readers

Designed for individual drill on the use of those phonetic combinations most frequently found in the first and second readers.

Contains 24 of the simplest phonograms duplicated 3 to 8 times to build more than 300 different words.

No. 241. Per box ..... .30
Per dozen boxes 3.00

Contains 34 phonograms duplicated 3 to 6 times to build 400 different words. More advanced than No. 241.

No. 242. Per box ..... .30
Per dozen boxes 3.00

IDEAL PHONIC DRILL CARDS

Fifty-six word-family combinations or phonograms taken from the primer and first reader vocabularies. They are printed on 3x5 inch manila cards in type large enough to be clearly seen from all parts of a class-room. Used by the teachers as "flash" or perception cards for rapid drill in the recognition and pronunciations of these common phonic elements.

No. 255. Per set ..... .50
Per dozen sets 5.00

NUMBER CARDS • TOY MONEY • CLOCK DIALS • FLASH CARDS

IDEAL NUMBER CARDS

Over 275 figures printed on both sides of ticket board that is easy to handle and unequalled in toughness.

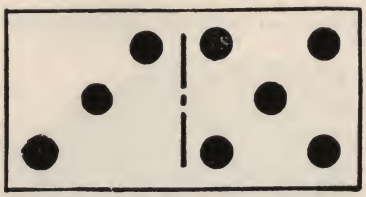
No. 244. Per box ..... .20
Per dozen boxes 2.00

IDEAL NUMBER CARDS, IN STRIPS

Same as above, but printed on strips to be cut apart by the pupils.

No. 244S. Per set ..... .10
Per dozen sets 1.00

IDEAL DOMINO CARDS

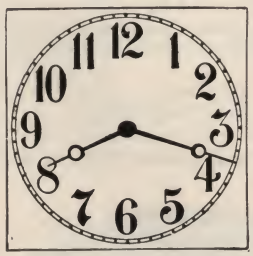


Ideal Domino Cards contain all the combinations to 10, and may be used in a number of interesting ways both for oral and seat work with first or second grade children. Considerable oral drill suitable for third grade classes is also possible with them.

Twelve sheets of 34 dominos are printed on heavy manila board, 8x9 inches, to be cut up for use. Many suggestions for their successful use are given.

No. 254. Set of 12 ..... .35
Dozen sets 3.50

CLOCK DIALS



A large clock dial printed on heavy white enameled cardboard with large movable metal hands. On the reverse side are drawings and a description of ancient time telling devices. 11 inch dial.

Printed on heavy serviceable cardboard.

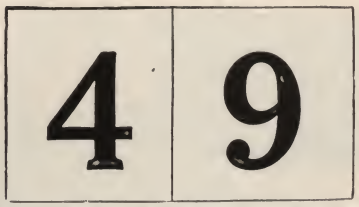
No. C12. Each ..... .50
Per dozen 5.00

FOR PUPIL'S USE

Excellent for drill in number and quantity conception and association. 3¼" dial.

No. C4. Each ..... .10
Per dozen 1.00

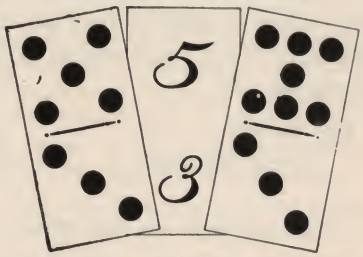
LARGE TYPE NUMBER CARDS



Over 275 cards one inch square printed on tough gray cardboard. Easy to see and handle.

No. 249. Per box ..... .35
Per dozen boxes 3.50

IDEAL PERCEPTION CARDS



The set consists of 34 heavy manila cards, size 4½ x 9 inches. On one side of the card the domino designs are shown and on the reverse of each the same combination in numerals.

Printed in black ink with the domino dots one inch in diameter so that they may easily be seen from all parts of the room. There are 34 cards in the set, which contain all the number combinations from 1 to 10 and the digits from 1 to 9. In a strong cardboard box.

No. 235. Per set ..... .80
Per dozen sets 8.00

EDUCATIONAL TOY MONEY

This box of educational toy money contains coins as follows: 16-50c; 20-25c; 32-10c; 44-5c; 32-1c. Total 156 pieces. The coins are made of tough cardboard and are printed upon both sides. The box contains eight trays for the proper assorting of the denominations. The box has a specially designed cover and is strong and durable.

No. 5500. Per box ..... .65
Per dozen 6.50

EDUCATIONAL COINS AND BILLS

This box is the same as No. 5500, but also contains a set of No. 5502 Toy Bills.

No. 5501. Per box ..... .80
Per dozen 8.00

EDUCATIONAL TOY BILLS

A strong, durable envelope contains thirty bills in various denominations—1 to 100 dollars.

No. 5502. Per envelope ..... .15
Per dozen 1.50

KIBBE NUMBER DRILL CARD

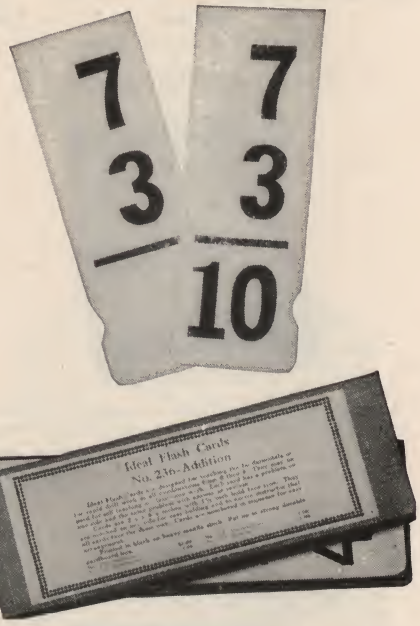
These cards are designed for "flash" or rapid drill exercises.

For accurate, rapid work in arithmetic which modern business demands, the common number facts must be made so familiar that their recall becomes immediate and unerring.

The Kibbe Number Drill Cards are the best possible device for accomplishing this result. Ninety-six two-number combinations are printed in type 1⅝ inches high on strong manila cards, 3x5 inches. These include all the combinations of the addition, subtraction and multiplication tables, and also many of the combinations of the division tables.

No. 256. Per set ..... .50
Per dozen sets 5.00

IDEAL FLASH CARDS



Ideal Flash Cards are designed for teaching the fundamentals or for rapid drill work in all combinations from 0 through 9. They may be used for self teaching or class room work. Each card has a problem on one side and the same problem with the answer on reverse.

Cards are 2⅞x8⅞ inches with 1⅞ inch bold face type. They are notched on one side for easy holding and to assure instructor that all cards face the same way. Cards are numbered in sequence for easy arrangement.

Printed in black on heavy manila stock. Put up in strong durable cardboard box.

No. 236. Addition 1.00
No. 237. Subtraction 1.00
No. 238. Multiplication 1.00
No. 239. Division 1.00

PEG BOARDS AND PEGS, STICKS, BEADS, CUBES AND PARQUETRY

IDEAL WOODEN BEADS FOR STRINGING

One-half inch beads, spheres, cubes and cylinders in the six primary colors. Waxed finish. Bored for stringing.

No. 740. 144 assorted forms ..... .85
No. 741. 144 assorted spheres ..... .70
No. 742. 1,000 assorted forms in a strong pasteboard box 4.50

LARGE BEADS

1 inch beads, spheres, cubes and cylinders in six primary colors. Bored with a $\frac{3}{16}$ inch hole.

No. 745. 144 assorted forms in a box 3.50
No. 746 500 assorted forms in a box 9.00

LACES FOR BEAD STRINGING

Round black laces, 36 inches, metal tips, very strong and durable.

No. 740L. Per dozen ..... .35
No. 740L. Per gross 3.50

IDEAL COLORED SHOE PEGS

Ideal shoe pegs are excellent for training in design, counting and color recognition. They may also be used with the peg boards. These pegs are ¾ inches long, dyed in six primary colors.

No. 665. 3,000 pegs in box ..... .50

IDEAL LARGE COLORED SHOE PEGS

These pegs are 1¼ inches long and about ⅛ inch square, 6 colors. To be used the same as the small pegs, but because of the size are preferred by many teachers.

No. 1055. 1,000 pegs in box ..... .50

PEG BOARDS AND PEGS

Ideal peg boards are accurately drilled with 100 holes, beautifully finished with hard lacquer surface.

No. 66. 6x6 inch board. Each ..... .40
Per dozen 4.00
No. 1010. 10x10 inch board, $\frac{3}{16}$ inch holes 1 inch apart. Each ..... .75

SMALL ROUND PEGS

These pegs, designed especially for use with No. 66 board, are ¾ inches long.

No. 660. 1,000 small round colored pegs. Per box ..... .45

BEADED PEGS

No. 661. 144 beaded pegs for use with Peg Board No. 66. Per box ..... .70

LARGE ROUND PEGS

These pegs, 2 inches long are designed especially for use with No. 1010 board.

No. 1050. 100 large round colored pegs. Per box ..... .45
No. 1051. 1,000 large round colored pegs. Per box 2.25

PARQUETRY BLOCKS

Wooden tablets, made in half squares and diamonds, and colored in 6 standard colors. With these blocks most artistic and instructive designs may be made. Put up in strong pasteboard boxes, each containing suggestive designs.

No. 700. 80 blocks ..... .30
No. 701. 250 blocks ..... .60

CUBICAL COUNTING BLOCKS

One inch cube blocks, made from carefully selected stock, furnished plain or in six standard colors. These blocks may be used to teach numbers, fractions or form and design.

No. 27C. 27 colored cubes in a box .55
No. 100C. 100 colored cubes in a box 1.70

STICKS FOR LAYING

BOXED STICKS

These sticks are used to teach numerical proportion, form work and color recognition before drawing has been attempted.

No. 155. 1000 sticks, 1 to 5 inches, 6 colors. Price, per box 1.00

PACKAGED STICKS

1,000 Sticks Per Package

No. 205. 5 inches long, 6 colors ..... .80
No. 204. 4 inches long, 6 colors ..... .65
No. 203. 3 inches long, 6 colors ..... .55
No. 202. 2 inches long, 6 colors ..... .45
No. 201. 1 inch long, 6 colors ..... .40

STICK PRINTING OUTFITS

Excellent for color design and form recognition. Complete set as shown with red, yellow and blue printing pad.

No. 220. Per set ..... .35

STICKS, 50 each, square, triangle, circle, oblong 100 each small square and round dot.

No. 222. Per box, 400 pieces 2.00

PRINTING PADS. 50 of a color in a bottle. Furnished in eight colors—red, orange, yellow, green, blue, violet, brown, black.

No. 224. Per bottle of 50 ..... .40

NON-DRYING COLOR for saturating pads. Put up in 2-ounce bottles.

No. 226. Per bottle ..... .40
No. 226. Per dozen bottles 4.00

BOOKS THAT WILL HELP TEACHERS

SIMPLE CONSTRUCTION WORK IN PAPER AND CARDBOARD

By Lincoln P. Goodhue, Formerly Principal Holden School, Chicago

A book which every teacher and library should own.

This book is planned to give most complete instruction in paper cutting and folding and in sufficient variety to cover the different kinds of work generally done in school.

There are 32 full page working detail drawings drawn to an exact scale and fully keyed. The working drawings appear on the left hand page of the book. On the opposite page is a fine half-tone cut of the completed object and full printed instructions for each step in the development of the finished article, simply given so that anyone may easily follow them.

There are over 100 objects described and pictured and the subjects include a house, barn, windmill, fences and trees, also a complete set of furniture for three or four rooms, including a piano, phonograph and fireplace. The general objects described include boxes, calendar stands, pinwheels, Christmas and Hallowe'en decorations, stars, drinking cups, etc., in fact all the items children like to make but which many teachers do not know the best way to produce.

There are 69 pages, 9x12 inches, printed in large clear type on an extra quality paper.

Teachers' Edition ..... .75

ACTIVE GAMES FOR SCHOOLROOM AND PLAYGROUND

Adapted and arranged by Lincoln P. Goodhue, formerly Principal of Holden School, Chicago.

This new collection of games will prove of great value to every teacher seeking new and interesting games for both schoolroom and playground. The games have been grouped so that the teacher will find it easy to select a great variety for any purpose.

Some of the groupings are as follows: Rest Exercises, Circle Games, Relay and Contest Games, Games with Bean Bags, Favorite Singing Games, Games for Language and Memory Drill, Tag Games, Goal Games, Games with Balls, etc.

Well printed and durably bound in stiff paper.

Per copy ..... .40

SENSIBLE SEAT WORK

By Lincoln P. Goodhue, author of Simple Construction in Paper and Cardboard.

This book contains a real treasury of ideas for the use of material to be made by the teacher or pupil and hundreds of ways to use seat work material.

The book shows how to use simple materials in an interesting and instructive way in connection with every primary study. There are pages devoted to the holidays and to each month of the school year.

The many illustrations show in detail some of the exercises suggested and make the work both simple and helpful.

Well printed on a good grade paper, bound in stiff paper covers, illustrated with over fifty drawings.

Per copy ..... .40

STORY AND SEAT WORK WITH PATTERNS

By Mary Eleanor Ross

A Book Every Primary Teacher Should Have

There is an abundance and variety of material appropriately arranged for every month of the school year from September to June. There are many delightful children's stories, old and new, poems, reading lessons for blackboard or chart, games and other activities.

Miss Ross gives suggestions throughout the book as to how each topic should be treated and what work may be undertaken by the pupil or class to correlate with the subject. To aid in this activity there is an accompanying set of patterns printed on heavy cardboard to be used by the pupil as an activity in studying the stories or poems.

The book, paper bound, contains 112 pages. The patterns, printed on heavy cardboard, are put up in an envelope.

Book and Patterns ..... .40

COATED PAPER

KROME-KOTE PAPER

Our Krome-Kote paper includes each of the standard colors, and a tint and shade of each; also grays, black, and white, and two commonly used colors.

This paper was made to our special order and is very well balanced as to color values; the number of colors is sufficient to meet all the requirements of the average teacher. It will be found to be a very high grade paper.

Accurately cut. Put up 100 sheets to package.

No.	*Color*	*No.*	*Color*
1.	Red Tint	13.	Blue Tint
2.	Red Standard	14.	Blue Standard
3.	Red Shade	15.	Blue Shade
4.	Orange Tint	16.	Violet Tint
5.	Orange Standard	17.	Violet Standard
6.	Orange Shade	18.	Violet Shade
7.	Yellow Tint	19.	Green Gray
8.	Yellow Standard	20.	Cool Gray
9.	Yellow Shade	21.	Natural Gray
10.	Green Tint	22.	Brown
11.	Green Standard	23.	Gray Green
12.	Green Shade	24.	White
		25.	Black

No. 840. 100 pieces, 4x4 in., any one of the standard colors. Per pkg. . .35

No. 841. 100 pieces, 5x5 in., any one of the standard colors. Per pkg... .50

No. 842. 100 pieces, 6x6 in., any one of the standard colors. Per pkg... .55

No. 843. 100 pieces, 4x4 in., 6 standard colors assorted. Per pkg..... .35

No. 844. 100 pieces, 5x5 in., 6 standard colors assorted. Per pkg..... .50

No. 845. 100 pieces, 6x6 in., 6 standard colors assorted. Per pkg..... .55

No. 846. 100 pieces, 4x4 in., 25 colors assorted. Per pkg..... .30

No. 847. 100 pieces, 5x5 in., 25 colors assorted. Per pkg..... .45

No. 848. 100 pieces, 6x6 in., 25 colors assorted. Per pkg..... .50

No. 849. Any color, 20x24 in. Per sheet .07

GOLD AND SILVER PAPER

No. 860G. 100 sheets, 4x4 in., per pkg. .50

No. 860S. 100 sheets, 4x4 in., per pkg. .50

No. 861G. 100 sheets, 5x5 in., per pkg. .70

No. 861S. 100 sheets, 5x5 in., per pkg. .70

No. 862G. 20x26 in., per sheet..... .10
per doz. sheets 1.00

No. 862S. 20x26 in., per sheet..... .10
per doz. sheets 1.00

KROME-KOTE CIRCLES

These circles are die cut. May be used for cutting, folding or color study.

No. 843SC. 100 circles, 4-inch diameter, 6 standard colors assorted. Per pkg. .55

No. 844SC. 100 circles, 5-inch diameter, 6 standard colors assorted. Per pkg. .65

No. 846AC. 100 circles, 4-inch diameter, 23 colors assorted. Per pkg..... .55

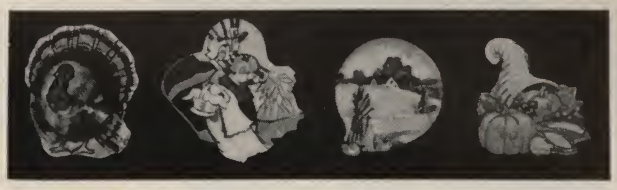
No. 847AC. 100 circles, 5-inch diameter, 23 colors assorted. Per pkg..... .65

GUMMED SEALS

CHRISTMAS

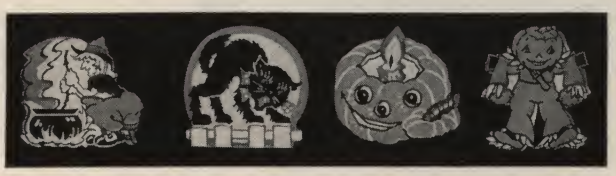
7801 7802 7803 7804
7805 7806 7807 7808

THANKSGIVING



7701 7702 7703 7704

HALLOWE'EN



7601 7602 7603 7604

PATRIOTIC

7101 7102 7103 7104 7105

VALENTINE

7201 7202 7203 7204

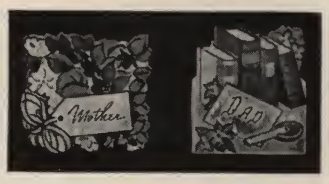
EASTER

7401 7402 7403 7404

ST. PATRICK'S DAY

7301 7302

MOTHER'S DAY



7501 7502

All Seals Listed Above .07 Per Pkg. .75 Per Dozen Pkgs.
Illustrations are approximately ½ of Actual Size

BIRD SEALS

8840 Cardinal
8841 Goldfinch
8842 Oriole
8843 Woodpecker
8844 Robin
8845 Bluebird

Per package 10
Per dozen pkgs. 1.00

FLORAL SEALS

20 Red Rose
21 Pink Rose
22 Yellow Rose
23 Poppy
24 Violets
25 Forget-Me-Nots
26 Jonquil
27 Carnation
28 Morning Glory
29 Lily-of-the-Valley
30 Nasturtium
31 Pansy
32 Tulip
33 Apple Blossom
34 Daisy
35 Bouquet

30 Seals per Package

Pkg. .10 Dozen 1.00

GUMMED STARS

No. 1 No. 2
Actual Size No. 4

No. 1. Gold, Silver, Red, Blue, Green. 1.50 per box

No. 4. Gold and Silver only.
Per box .70 doz. .10 doz. boxes 1.00

CALENDAR PADS

Stitched tops and gummed back, no rough edges, embossed covers printed in colors and gold.

		Doz	*100*
No. 95.	Size 1x1¼"	.10	.85
No. 96.	Size 1½x1¾"	.20	1.60
No. 97.	Size 1x2¼"	.20	1.25
No. 98.	Size 2x3½"	.30	3.00

BOOK COVERS

These covers are made of non-inflammable cellulose acetate, attractively bound with blue leatherette and reinforced with metal corners. To make for flexibility and to prevent cracking, back of cover is beautifully paneled with ½″ of imitation leather to match binding, with attached book mark.

Their smart blue imitation leather bindings are reinforced with metal corners. They outlast dozens of magazines giving them Visible Protective Display smartness.

No. B.C.—7¾ For Book approximately 8¼x5¼x1½ ..... .35
No. B.C.—8¾ For Book approximately 9½x6¾x1½ ..... .35
No. B.C.—9¾ For Book approximately 10¼x6¼x1¾ ..... .35
Readers Digest size—5½x7¾x½, also fits American Mercury, World Digest, Scenic Digest, Coronet. **No. SMC** ..... .35
Cosmopolitan size—9x12½x½, also fits New Yorker, Time, Good Housekeeping, American Magazine, Picture Play, Movie Mirror, Screen Romances. **No. MMC** ..... .60
Life size—11¼x14½x¾, also fits Saturday Evening Post, Colliers, Ladies Home Journal, Look. **No. LMC** ..... .70

EDUCATIONAL – DESK OUTLINE MAPS – PRACTICAL

No. 1—UNITED STATES

Better results may be accomplished by having pupils gather their own facts and place this knowledge on paper.

The use of desk maps—invites representation of concrete knowledge . . . makes for exact thinking . . . gives better impression of form . . . facilitates grouping of relations in large areas . . . constitutes an ideal vehicle for self expression work. . . . Where location plays a part (and that means in practically all phases of geography instruction) use Nystrom desk outline maps.

GRAND DIVISION

8x 10½	10½ x15	No.	
D	DD	2	Europe.
D		2M	Europe, with mountains.
D	DD	3	Asia.
D		3M	Asia, with mountains.
D	DD	4	Africa.
D		4M	Africa, with mountains.
D	DD	5	North America.
D		5M	North America, with mountains.
D	DD	6	South America.
D		6M	South America, with mountains.
D	DD	7	Old World.
D	DD	8	New World.
D	DD	9	World, Mercator Projection.
D	DD	10	Australia and New Zealand.
D		10M	Australia, with mountains.
D	DD	97	World, Boggs Equal Area Projection.
†D	DD	98	World, Van der Grinten Projection (Americas in west).
D	DD	98a	World, Van der Grinten Projection (Americas in center).
D	DD	99	World, Mollweide Projection.

EUROPEAN DIVISIONS

8x 10½	10½ x15	No.	
D	DD	12	British Isles.
D	DD	13	England and Wales.
D	DD	24	France.
D	DD	25	Italy.
D	DD	28	Central Europe.
D	DD	29	Belgium and The Netherlands.
D	DD	30	Norway, Sweden and Denmark.
D	DD	34	Western Europe.
D	DD	35	Eastern Europe.
D	DD	36	Southern Europe and Mediterranean Lands.
D	DD	37	Spain and Portugal.
D	DD	38	Germany.
D	DD	46	Northern Europe.
D	DD	50	Greece.
D		63	Balkan States.

ASIATIC DIVISIONS

D	DD	49	Southwestern Asia.
D	DD	55	China and Japan.
D	DD	80	Far East.
D	DD	82	Near East.

CANADA, MEXICO AND LATIN AMERICA

D	DD	11	Canada.
D		33	West Indies.
D	DD	67	Mexico, Central America and West Indies.
D		68	Mexico.
D		69	Central America.
D		233	Latin America.

OCEANS AND POLAR REGIONS

D	DD	20	Atlantic Ocean.
D	DD	21	Pacific Ocean.
D	DD	22	Indian Ocean.
D	DD	58	Antarctic Regions.

UNITED STATES

D		1	United States.
D	DD	1a	U. S. Weather.
D	DD	1b	U. S. Rainfall.
D	DD	1c	U. S. Drainage.
D	DD	1d	U. S. Contours.
D		1E	U. S. with State Names.
	DD	1f	U. S .Four On.
D		1M	United States, with mountains.

SECTIONS OF UNITED STATES

8x 10½	10½ x15	No.	
D	DD	170	Northeastern States.
D	DD	171	Eastern States.
D	DD	172	New England States.
D	DD	173	Southern States.
D	DD	174	Central Atlantic States.
D	DD	176	Mississippi Valley.
D	DD	177	Western States.
D	DD	178	North Central States.
D	DD	182	South Atlantic States.
D	DD	183	South Central States.

STATES

D		129	New Jersey.
D		131	New York.
D	DD	134	Ohio.
D		137	Pennsylvania.

Note—Maps are available of any State in the U.S.

HISTORY MAPS
(Without Boundaries)

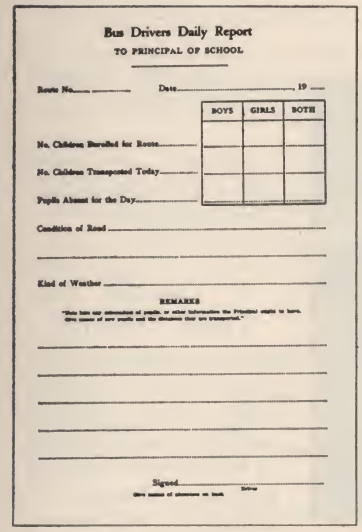
D	DD	2H	Europe.
D	DD	25H	Ancient Italy.
D	DD	28H	Central Europe.
D	DD	36H	Southern Europe and Mediterranean Lands.
D	DD	46H	Northern Europe.
D	DD	47H	Western Asia and Europe.
D	DD	49H	Southwestern Asia.
	DD	65H	Central and Western Europe.
D	DD	82H	Asia Minor.
D	DD	84H	Ancient Greece and the Aegean.
D	DD	86H	Alexander's Empire.
D	DD	87H	Athens.
D	DD	88H	Babylonia and Egypt.
D	DD	90H	Roman World.
D	DD	93H	Gaul.
D	DD	94H	Rome.
D	DD	195H	England and France.

PRICES

	D	DD
Less than 50 maps of a kind. Each	.02	.03
In "Standard Packages" 50 Maps of a kind to a package:		
1-9 Pkgs. Per pkg.	.50	.90

All Orders will be Priced at Time of Delivery whether Higher or Lower than Catalog Prices

SCHOOL FORMS


Bus Drivers Daily Report
TO PRINCIPAL OF SCHOOL

Route No. ..... Date ..... 19 ....

	BOYS	GIRLS	BOTH
No. Children Enrolled for Route			
No. Children Transported Today			
Pupils Absent for the Day			

Condition of Road .....

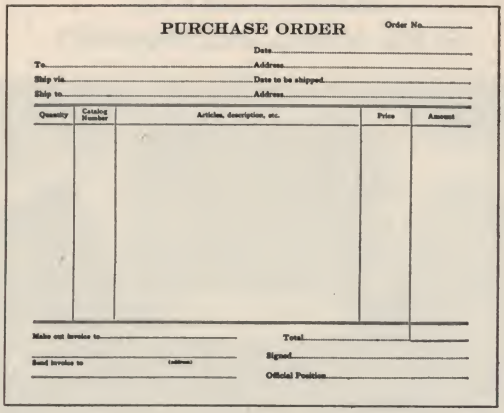
Kind of Weather .....

REMARKS

"Give here any information of traffic or other information the Principal ought to have. Give names of new pupils and the distance they are transported."

Signed ..... Driver

Give number of classroom on back


PURCHASE ORDER Order No. .....

Date .....

To ..... Address .....

Ship via ..... Date to be shipped .....

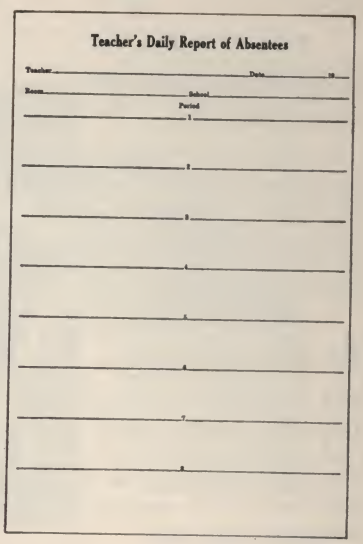
Ship to ..... Address .....

Quantity	Catalog Number	Articles, description, etc.	Price	Amount

Make out invoice to ..... Total .....

Send invoice to ..... (address) Signed .....

Official Position .....


Teacher's Daily Report of Absentees

Teacher ..... Date ..... 19 ....

Room ..... School .....

Period

1 .....

2 .....

3 .....

4 .....

5 .....

6 .....

7 .....

8 .....

SCHOOL FORMS AND LETTERHEADS

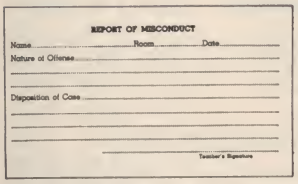
We are ready to supply your requirements for school forms, letterheads and envelopes. Any school form you require can be furnished if you just send us a sample of the form or a rough sketch of the information you would like to have printed on it. Our prices will be quoted for you immediately.

Your own design for school letterheads and envelopes will be printed by us at minimum cost, or we will be glad to furnish suggestions for design.

Please enumerate clearly the information you desire to have printed on the form or letterhead when writing for quotations. Also, please specify if you desire the forms or paper in padded form or loose.

REPORT CARDS

		Doz.	Per 100	Per 1000
S- 1.	Secondary Monthly Report Card	.20	1.25	9.60
S- 2.	Academic Progress Report Card	.25	1.50	11.20
S- 4.	Academic 6 Weeks Report Card	.20	1.25	9.60
S- 5.	Academic Quarterly Report Card	.20	1.25	9.60
S- 6.	Academic Quarterly Report Card	.20	1.25	9.60
S- 7.	Aca. School Report, Pads of 100	—	1.10	8.80
S-11.	Elem. Monthly Report Card	.20	1.25	9.60
S-12.	Elementary Progress Report Card	.20	1.40	11.20
S-15.	Elem. Quarterly Report Card	.20	1.25	9.60
S-17.	Elem. School Report, Pads of 100	—	1.10	8.80
S-18.	Elem. Six Weeks Report Card	.20	1.25	9.60
No. 1.	Report Card Envelopes, 4x6¼"	.10	.60	5.00
No. 2.	Report Card Envelopes, 4½x7"	.15	.80	7.00

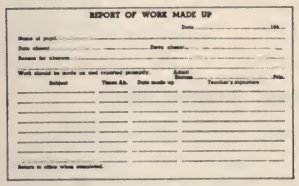

REPORT OF MISCONDUCT

Name ..... Room ..... Date .....

Nature of Offense .....

Disposition of Case .....

Teacher's Signature


REPORT OF WORK MADE UP

Date ..... 194 ....

Name of pupil .....

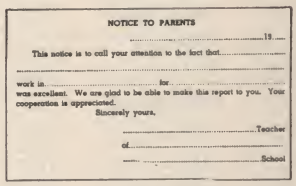
Date absent ..... Days absent .....

Reason for absence .....

Work should be made up and reported promptly. Admit ..... Pts.

Subject	Times Ab.	Date made up	Teacher's signature

Return to office when completed.


NOTICE TO PARENTS

..... 19 ....

This notice is to call your attention to the fact that .....

..... for .....

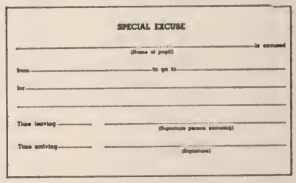
work in ..... was excellent. We are glad to be able to make this report to you. Your cooperation is appreciated.

Sincerely yours,

..... Teacher

of .....

..... School


SPECIAL EXCUSE

..... is excused

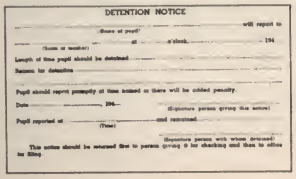
(Name of pupil)

from ..... to go to .....

for .....

Time leaving ..... (Signature person excusing)

Time arriving ..... (Signature)


DETENTION NOTICE

..... will report to

(Name of pupil)

..... at ..... o'clock ..... 194 ....

(Room or teacher)

Length of time pupil should be detained .....

Reason for detention .....

Pupil should report promptly at time noted or there will be added penalty.

Date ..... 194 .... (Signature person giving the notice)

Pupil reported at ..... (Time) and remained .....

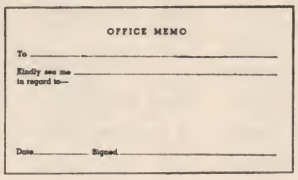
This notice should be returned first to person giving it for checking and then to office for filing

TEACHER'S REPORT OF ABSENCES

Period or session ..... Date ..... 194 ....

Names of pupils absent.

(Teacher's Signature)

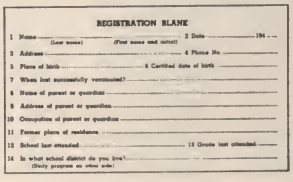

OFFICE MEMO

To .....

Kindly see me .....

in regard to— .....

Date ..... Signed .....


REGISTRATION BLANK

1 Name ..... (Last name) (First name and initial) 2 Date ..... 194 ....

3 Address ..... 4 Phone No. .....

5 Place of birth ..... 6 Certified date of birth .....

7 When last successfully vaccinated? .....

8 Name of parent or guardian .....

9 Address of parent or guardian .....

10 Occupation of parent or guardian .....

11 Former place of residence .....

12 School last attended ..... 13 Grade last attended .....

14 In what school district do you live? .....

(Daily program on other side)

PLAN BOOKS – CLASS REGISTERS – ENVELOPES

SCHOOL SERVICE PLAN BOOKS and REGISTERS

WIRE BOUND TO LAY FLAT ON DESK.

FLEXIBLE DARK BROWN LEATHERETTE COVER WITH GOLD PRINTING.

PAGES OF HEAVY BOND PAPER.

CORNERS OF BOOK DIE CUT FOR NEAT APPEARANCE.

No. 327 PLAN BOOK

The cover has a cutout to teacher's name, room, and school on fly leaf. A two page seating chart is provided with 64 seat locations on each page.

A two-page term program, an 8-page examination record section and 6 pages ruled for notes are also provided. The School Service Plan Book contains double page plans for 40 weeks. Overall size 8¾ x 11¼.

Each ..... .70 Dozen ..... 7.00 Gross 70.00

No. 40 CLASS REGISTER

Same as No. 20 except double number of pages.

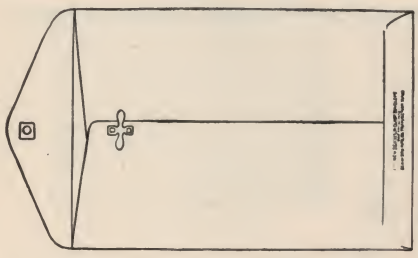
Each	.50
Dozen	5.00
Per gross	50.00

No. 20 CLASS REGISTER

Space provided for registration of up to 20 weeks grades. Each page has lines for 35 names. Twelve of these double pages are provided. Additional examination and remark spaces are provided on each page. Overall size of book 6¼" x 8½".

Each	.40
Per dozen	4.00
Per gross	40.00

CLASP ENVELOPES



No.	Size	Doz.	100	1000
0	2½x4¼"	.16	1.11	10.25
5	3⅛x5½"	.18	1.21	11.15
9½	4⅛x9½"	.24	1.66	15.30
10	3⅜x6"	.18	1.24	11.45
11	4½x10⅜"	.35	1.72	15.75
15	4x6⅜"	.19	1.32	12.15
25	4⅝x6¾"	.21	1.48	13.70
35	5x7½"	.23	1.57	14.50
50	5½x8¼"	.24	1.67	15.40
55	6x9"	.26	1.77	16.35
63	6½x9½"	.27	1.84	16.95
68	7x10"	.29	2.02	18.70
75	7½x10½"	.31	2.17	20.00
83	8¼x11¼"	.35	2.46	22.65
90	9x12"	.37	2.58	23.90
93	9½x12½"	.40	2.78	25.70
95	10x12"	.41	2.86	26.50
97	10x13"	.43	2.95	27.30
105	11¼x14¼"	.52	3.57	33.00
110	12x15½"	.56	3.88	36.10

EXPANDING ENVELOPES

Made of red rope stock for school papers and drawings. Tape fastening. 2" expansion.

		Doz.	Per 100
No. 1.	9½x11¾	1.90	15.00
No. 2.	10x15	2.00	15.75
No. 3.	12x18	3.35	27.00

UTILITY ENVELOPES

COMMERCIAL ENVELOPES

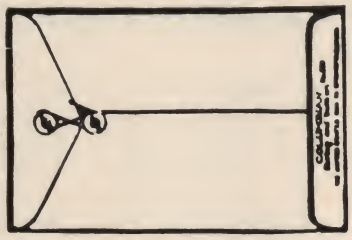
No. 360 Standard White Wove Stock, 24 lb.

No.	Size	100	1000
6¾	3⅝x6½	.43	3.58
10	4⅛x9½	.72	6.00

No. 2036 Best Grade No. 1 Manila

No.	Size	100	1000
6¾	3⅝x6½	.41	3.47
9	3⅞x8⅞	.63	5.30
10	4⅛x9½	.69	5.75

STRING-TIE ENVELOPES



No.	Size	Doz.	100	1000
15	4x6⅜"	.19	1.32	12.15
35	5x7½"	.23	1.57	14.50
55	6x9"	.26	1.77	16.35
75	7½x10½"	.31	2.17	20.00
25	4⅝x6¾"	.21	1.48	13.70
50	5½x8¼"	.24	1.67	15.40
63	6½x9½"	.27	1.84	16.95
68	7x10"	.29	2.02	18.70
83	8½x11½"	.35	2.46	22.65
90	9x12"	.37	2.58	23.90
93	9½x12½"	.40	2.78	25.70
95	10x12"	.41	2.86	26.50
97	10x13"	.43	2.95	27.30

COIN ENVELOPES

Open End Gummed Flaps

These envelopes have many uses—such as seatwork, coins, nails, screws, nuts, bolts, toy money, etc. The teacher will use them for any purpose which requires a small envelope.

No.	Size	100	1000
A	2¼x3½	.27	2.22
B	2½x4¼	.29	2.44
D	3x4⅞	.37	3.12

OFFICE PAPER AND SUPPLIES

ALL PURPOSE COLLECTORS RECEIPT BOOK

Size 10½x7¼. 4 forms per sheet, 150 sheets or 600 forms in duplicate. Perforated and carbon paper furnished.

Per Book..... 1.50

COLLECTOR'S RECEIPT BOOK

Contains 100 Tax Receipts in duplicate form approved by New York State Law..... 1.50

TRUSTEES ACCOUNT BOOK

9 pages for recording and classifying receipts, and 21 pages for recording and classifying expenditures.... 5.00

MONEY RECEIPT BOOKS

Lithographed forms with stub attached perforated for easy separation. Tan pressed board cover. Receipt printed on 16 lb. substance, good quality white bond paper. 50 receipts per book.

No. 2577½, per book..... .25

WHITE CROSS SECTION PAPER

White Drawing Paper stock, ruled in squares for Graph and Art work. Pkgs. of 100 sheets 9x12. Ruled ½, ¼, ⅛, 1".

Per Package..... .42
Per Ream of 500 sheets..... 1.90

MANILA CROSS SECTION PAPER

Cream Drawing stock, for graph and art work. Packages of 100 sheets, 9x12. Ruled ½, ¼, ⅛, 1".

Per package of 100 sheets..... .27
Per ream of 500 sheets..... 1.28

BLACK CROSS SECTION PAPER

Black paper ruled with white lines, ¼".

In packages of 50 sheets..... .31

COORDINATE PAPER

C-210R. Metric Ruled 8x10½" with margin.

Per ream of 500 sheets..... 1.90

QUADRILLE PAPER

White paper for ink use, ruled ¼, ⅕, ⅛, 1/10, 1/20. 8½x11.

Per ream..... 1.72

ADDING MACHINE TAPE

Strong sulphite tape in rolls.

2 9/32". Per roll..... .20
Per doz..... 2.00

SCHOOL SERVICE CARBON PAPER

STENO-CARBON—Highest quality, medium weight, makes clear, sharp impressions. 25 sheets per fold, 4 folds per box. Black only.

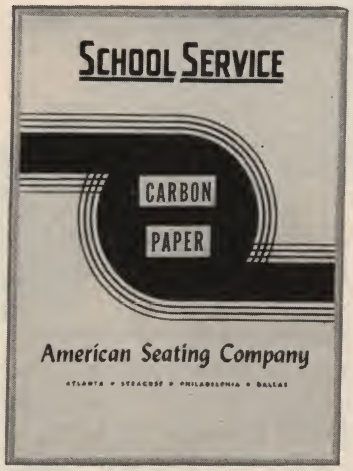
	8½x11	8½x13
No. 184S. (standard machine) box	3.00	3.35
No. 186N. (noiseless machine) box	3.00	3.35

SCHOOL-CARBON—Good quality, heavy weight, clear impressions. For general office or school use. 25 sheets per fold, 4 folds per box. Black only.

	8½x11	8½x13
No. 174S. (standard machine) box	1.55	1.65
No. 176N. (noiseless machine) box	1.55	1.65

PENCIL CARBON — Good quality, heavy weight for clear pencil carbon copies. Back of sheets red color for easy identification. 25 sheets per fold. 4 folds per box. Blue only.

	8½x11	8½x13
No. 758 box	1.35	1.45



SCHOOL SERVICE TYPEWRITER RIBBONS

STENO-RIBBON—Best quality cotton, 12 ft. long, for clear, clean typing. Each ribbon wrapped and boxed. **No. 320**.. Each .85 Dozen 8.50

SCHOOL-RIBBON—Heavy duty cotton, 12 ft. long. For practice use in typing classes. Wrapped and boxed. **No. 270** ...Each .60 Dozen 6.00

Specify make of machine and inking desired.

PROJECT ROLLS

For Background and Frieze Work

No. 100. Manila Drawing Paper.
36" wide x 200 yards long..... 5.50

No. 106. White News Print Rolls.
24" wide x 20 yards long..... .65
36" wide x 490 yards long..... 5.25
Dispenser 24"..... 5.10
Dispenser 36"..... 5.40
Kraft paper 28" x 26 yards long..... 1.25

BOOKKEEPING PAPER

These sheets are pen ruled in brown and green and have 40 crosslines with footing space. They measure 11 x 8½" and are punched on the 11" side with 7 round holes. They are perforated to permit folding for filing. 50 sheets to a pad, 5 pads in a box.

No. 5401. Double entry ledger, 1¾" item space, ruled for 1,000 M.
No. 5402. 2 col., 5" item space, ruled for 1,000 M.
No. 5403. 3 col., 3⅝" item space, ruled for 1,000 M.
No. 5404. 4 col., 2¾" item space, ruled for 1,000 M.
No. 5406. 6 col., 1⅝" item space, ruled for 100 M.
No. 5407. 7 col., no item space, ruled for 100 M.
No. 5408. 8 col., no item space, ruled for 100 M.
No. 5410½. 10 col., left page 2 col., right page 8 col., 5" item space, left page ruled for 100 M.

Per pad..... .40 Per box..... 1.95

Other types of bookkeeping forms are available at your request. We will be glad to quote prices.

CREPE PAPER

Dennisons "Very Best" crepe paper is the highest quality crepe paper available. Lustrous, Strong, Elastic. Brilliant colors which blend into a group easily and beautifully.

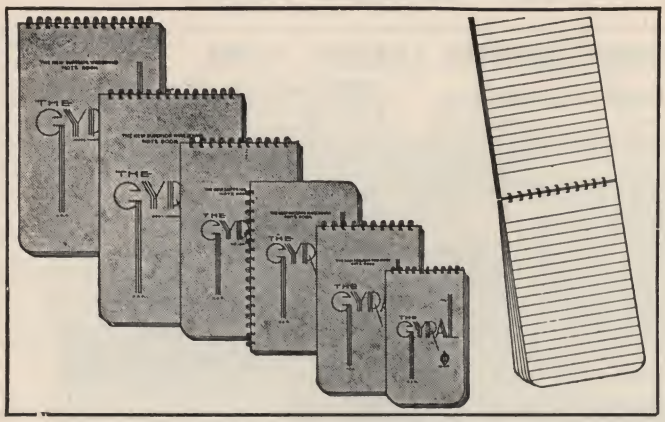
DENNISON CREPE PAPER

No. 100	White
No. 105	Grey
No. 108	Black
No. 110	Orchid
No. 114	Purple
No. 120	Baby Blue
No. 124	Light Blue
No. 125	Azure Blue
No. 127	French Blue
No. 128	Blue
No. 130	Spring Green
No. 131	Nile Green
No. 135	Green
No. 137	Leaf Green
No. 139	Grass Green
No. 141	Primrose
No. 142	Yellow
No. 144	Amber
No. 147	Orange
No. 150	Vermilion
No. 152	Red
No. 164	Blush Pink
No. 165	Pink
No. 169	American Beauty
No. 180	Peach
No. 183	Sand
No. 187	Medium Brown
No. 188	Brown

10 Ft. x 20 In. Folds

Per fold..... .20
Per dozen folds..... 2.00

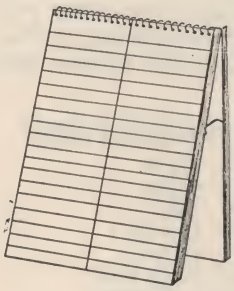
GYRAL WIRE-BOUND NOTEBOOKS



Gyral wire-bound books open flat, lie flat and offer a perfect writing surface. Leaves turn free and fast and lie open in perfect alignment. Leaves can be torn out for correcting and marking by a teacher without disturbing other leaves or harming the binding. Press board covers. Good grade white writing paper. 16-lb. substance.

G-710. Memo Book, 3x5, open end, 36 sheets. Doz. ..... .60
G-711. Memo Book, 2¾x4¾, open end, 40 sheets. Doz. .. .60
G-715. Memo Book, 5x8, open end, 36 sheets. Doz. ..... .70
G-717. Spelling Book, 4x10, open end, 25 sheets. Doz. .. .70
G-741. Music Book, 7x8½, open side, 36 sheets. Doz. 1.50
G-735. Composition Book, 6¾x8⅜, open side, 45 sheets. Doz. 1.50
G-738. Composition Book, 8x10½, open side, 22 sheets. Doz. 1.50

STENOGRAPHER NOTEBOOKS



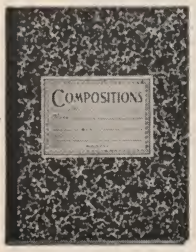
Most popular book of its kind, with its double bound wire which allows the leaves to turn freely and lay flat. Stands upright, printed on eye-saver paper. 60 leaves size 6x9.

HG-3692. Gregg ruled 1.50
HP-½" Ruled 1.50

STITCHED BINDING TYPE

No. 155. Gregg ruled 1.10
No. 169. ½" Ruled 1.10

COMPOSITION BOOKS



7x8½ Marble Stiff paper cover. 16 lb. white ruled paper with red margin. 40 pages.

No. 310. Doz. ..... .60
No. 310. Gross 6.50

8x10 Imitation Pressboard Cover. 16 lb. white ruled paper with red margin. 56 pages.

No. 313. Dozen 1.05
No. 313. Gross 12.00

PENCIL TABLETS

Attractive, sturdy pencil tablets of white smooth news stock.

No. 0221-R.	5½x9", 36 sheets	Doz.	.50	Gross 5.00
No. 0221-R.	5½x9", 110 sheets	Doz.	1.00	Gross 10.00
No. 0223-R.	8x10", 17 sheets	Doz.	.50	Gross 5.00
No. 0223-R.	8x10", 60 sheets	Doz.	1.00	Gross 10.00

SPELLING BLANK TABLETS

No. 5999. 4x9, 30 leaves. In tablet form with cover. 25 word spaces. Numbered.
Per dozen ..... .60

EMPIRE SCRATCH PADS

Good quality. Plain white pads, 100 sheets.

3 x 5	Doz.	.50	Gross 5.00
4 x 6	Doz.	.85	Gross 8.50
5 x 8	Doz.	1.40	Gross 14.00
6 x 9	Doz.	1.60	Gross 16.00

POCKET NOTEBOOKS

No. 200. 3½x5¾. 72 leaves. Ruled both sides. Open end, flexible covers. Per dozen ..... .55
No. 202. 4x6¾. 60 leaves. Ruled both sides. Open end.
Per dozen ..... .75

SCHOOL SERVICE INK TABLETS

These high quality ink tablets are ruled with ⅜" spaced faint blue lines. Each tablet has heavy back, blotter and an attractive cover design.

No. 5.	8x10", 15 sheets	Per doz.	.60	Per gross 6.00
No. 10.	8x10", 32 sheets	Per doz.	1.20	Per gross 12.00
No. 15.	5x8", 70 sheets	Per doz.	1.20	Per gross 12.00

SCHOOL SERVICE INK PADS

These pads are made of the same high quality paper as the tablets listed above, however, they are slightly more economical, due to the fact that the accessories, such as the covers and blotter which come with each tablet, are omitted. They are ruled with faint blue lines at ⅜" divisions.

No. 51.	8x10", 15 sheets	Per doz.	.55	Per gross 5.50
No. 101.	8x10", 32 sheets	Per doz.	1.15	Per gross 11.50

KRAFT WRAPPING PAPER

For project work as well as package wrapping. 30 lb. substance.

9" wide	3.25	20" wide	7.35
15" wide	5.25	24" wide	8.55
18" wide	6.20	36" wide	11.60

NOTEBOOKS – NOTEBOOK SUPPLIES

NOTEBOOK COVERS

Covered with black levant grain texide, this type of notebook has an inside cloth reinforcement strip. Its nickel plated wire rings are riveted through the back and have a 1" capacity.

No. 13871 measures 10½x8" in size. It has a two ring binder.

No. 13871 ..... Ea. .30 Doz. 3.35

No. 13881 measures 11x8½" in size. It has a three ring binder.

No. 13881 ..... Ea. .40 Doz. 3.75

These notebook covers measure 10½ x8" and have a flexible back. The ⅞" rings are equipped with full length fixtures to hold the papers in place. The cover is made of black imitation leather and the ring binders are riveted construction.

No. 458C, with two ring binder
Ea. .25 Doz. 2.25

This model combines all the features of No. 458C and in addition, has a stiff back.

No. 358C ..... Ea. .25 Doz. 2.50

Made of black imitation leather levant grain, this model notebook is of riveted construction. It has three rings measuring ⅞", with full-length fixtures to hold the enclosed papers. The notebooks have a stiff back and measure 11x8½".

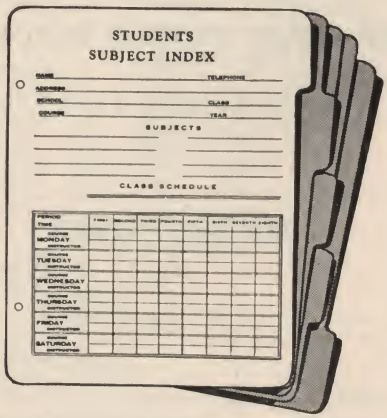
No. 1357C ..... Ea. .40 Doz. 4.00

SCHOOL SERVICE LOOSELEAF FILLERS

Made of superior quality paper, these loose-leaf fillers are lined in faint blue. They withstand hard, repeated erasing and are a good basis for either a fine or heavy pencil or pen line.

No.	Description	Size	Punching	Sheet Count	Dozen	Gross
150	Ruled with margin	8x10½"	2 hole	32	1.30	13.00
150P	Unruled	8x10½"	2 hole	32	1.30	13.00
550	Ruled with margin	8x10½"	2 hole	20	.75	7.50
550P	Unruled	8x10½"	2 hole	20	.75	7.50
5280F	Ruled, no margin	8½x11"	3 hole	35	1.30	13.00
5280P	Unruled	8½x11"	3 hole	35	1.30	13.00

NOTEBOOK INDEXES



A convenient five division index made of flexible index bristol in three colors. Tabs are step cut and provide ample space for student to write subject titles. First sheet has printed form for subjects, schedules etc. Punched for two or three ring notebook covers.

No. 98. 8x10½ (Two ring)
Set .16 Dozen 1.80

No. 13. 8½x11 (Three ring)
Set .16 Dozen 1.80

TRACING PAPER

Tracing paper in rolls, 42" wide by 20 yards long. This paper is thin, tough, and very transparent.

Roll 1.80

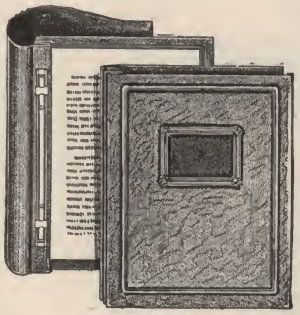
SPIRAL SCRAPBOOKS

Attractive picture cover scrap books. Front cover lithographed in eye catching colors in eight assorted designs. Good quality white news pages.

No. 1088. 9x12", 76 pages
Ea. .20 Doz. 1.75

No. 1083. 10¾x15", 44 pages
Ea. .20 Doz. 1.75

BRIEF BINDERS



An inexpensive cover of medium weight paper stock, leather grained and embossed with border and panel.

Available for either 8 x 10½ or 8½ x 11 paper inserts. Prong fasteners included with covers.

Colors: Blue, Grey, Green, Red, Brown and Black.

No. 433 ..... Dozen .10 Per 100 7.00

EXAMINATION BLUE BOOKS

Made especially for examination use. Lightweight blue cover, printed in black standard form, wire stapled.

Medium weight marginal ruled white writing paper, suitable for pen or pencil, size 7x8½". Eight pages are four sheets.

No. 4. 8 pages. Per 1,000 ..... 14.00

ARTISTS SKETCH BOOKS

These sketch books contain excellent white drawing paper. 20 sheets per book.

9x12" ..... Each .45 Dozen 4.50
12x16" ..... Each .75 Dozen 7.80

SPRING BACK BINDERS

Covered with black grained imitation leather over heavy weight binders board. Furnished with an inner folder to facilitate insertion and removal of sheets or books. Tempered steel spring back holds contents firmly without the use of clips or prongs. Capacity ¾". Greater capacities on request. Excellent for catalogs, magazines, bulletins, pamphlets, records, drawings and as Art portfolios.

No. 415. 8½ x 11
Each 3.00 Doz. 30.00

MIMEOGRAPH - GELATIN - LIQUID PROCESS DUPLICATING PAPERS

MIMEOGRAPH PAPER

No.	Wt.	Size	1–50 Reams	50–99 Reams	Description
3160	16 lb.	8½x11	1.11	1.03	Finest Grade Bond, Mimeograph Paper.
3460	16 lb.	8½x14	1.43	1.32	Takes signature in pen and ink very well.
3120	20 lb.	8½x11	1.38	1.28	This quality paper is required where good mimeo-
3420	20 lb.	8½x14	1.77	1.63	graph copies are needed.
2140	24 lb.	8½x11	1.61	1.51	Extra heavy high grade Mimeo Bond. Takes ink
2440	24 lb.	8½x14	2.03	1.94	signature. Mimeo on both sides.
3160C	16 lb.	8½x11	1.20	1.11	Colored signature Mimeo. Fine quality. Blue, buff,
3120C	20 lb.	8½x11	1.50	1.38	canary, pink, and green. Green No. 3120C only.

GELATIN AND LIQUID PROCESS DUPLICATING PAPER

7160	16 lb.	8½x11	1.10	1.02	Finest grade extra quality gelatin or liquid process
7460	16 lb.	8½x14	1.40	1.29	copy paper. Surface sized to remove the mini-
7120	20 lb.	8½x11	1.35	1.25	mum amount of ink, thus, allowing greater
7420	20 lb.	8½x14	1.73	1.60	number of copies.
					(Lower grade duplicator paper prices on request)

MASTER PAPERS

9180	28 lb.	8½x11	2.65	—	Liquid process Master Paper. Highly glazed sur-
9480	28 lb.	8½x14	3.25	—	face. Ink does not soak in.
5120	20 lb.	8½x11	2.10	—	Gelatin Process Master Paper. Highly glazed sur-
5420	20 lb.	8½x14	2.65	—	face. Ink not absorbed.
311	—	8½x11	4.50	Long Run	Ready-master Super-coated. Each carbon coated
314	—	8½x13	5.00	Long Run	with wax to eliminate soiling the hands, re-
411	—	8½x11	3.35	Short Run	duce deterioration and facilitate production of
414	—	8½x13	3.65	Short Run	copies.

TYPEWRITER PAPERS

1000	16 lb.	8½x11	1.00	0.90	Excellent quality watermarked Typewriter Bond
1040	16 lb.	8½x14	1.19	1.08	Paper. Takes ink signature very well without
1200	20 lb.	8½x11	1.20	1.09	feathering. Easily erased without undo wearing
1240	20 lb.	8½x14	1.55	1.45	of the paper.
1316	16 lb.	8½x11	1.10	—	Hammermill Typewriter Bond. Finest quality
1320	20 lb.	8½x11	1.65	—	obtainable. Watermarked.
311	—	8½x11	0.55	—	Typewriter Practice Paper. Inexpensive low qual-
314	—	8½x14	0.65	—	ity paper. Not for signature.
500Y	14 lb.	8½x11	0.54	0.48	Railroad Manila second sheets.

"COPY" PAPER

211	—	8½x11	0.76	—	Onionskin Paper. Suitable for use as second sheets
214	—	8½x14	0.97	—	in typing where large number of copies are re-
212	—	9 x12	0.89	—	quired.
411W	—	8½x11	1.82	—	Manifold paper, white, very thin, 1000 per box.
411C	—	8½x11	2.32	—	Manifold paper, white, "Copy" red letter.
411Y	—	8½x11	1.90	—	Manifold paper, yellow, 1000 per box.

TYPEWRITER PAPER PADS

1000P	16 lb.	8½x11	Doz. pads— 2.50 100 Pads—19.50	White Typewriter Bond Pads—100 sheets per pad.
500P	14 lb.	8½x11	Doz. pads— 2.00 100 Pads—18.75	Railroad Manila Paper in pads—can be used as originals or second sheets.

RULED WRITING, COMPOSITION, THEME

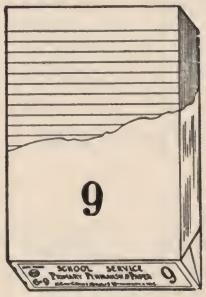
WHITE WRITING

No.	Wt.	Size	Ruled	1–49 Reams	50 or More Reams	Description
1		7x8½	⅜″ LW	.72	.66	This is a fine quality white ink paper ruled in various widths. Used for practice penmanship classes.
2		7x8½	⅜″ SW	.72	.66	
9		6x9	⅜″ SW	.65	.60	
1C		7x8½	⅜″ SW RM	.72	.66	In ordering this type penmanship paper, please specify stock number, size, ruling desired and purpose for which it is to be used for example: No. 1 7x8½ ⅜″ SW Penmanship Practice Paper.
1A		7x8½	½″ LW	.72	.66	
2A		7x8½	½″ SW	72	.66	
1B		7x8½	⅝″ LW	.72	.66	
2B		7x8½	⅝″ SW	.72	.66	
2C		7x8½	¾″ LW	.72	.66	
1D		7x8½	1″ LW	.72	.66	Symbols: LW=Long Way, SW=Short Way, RM=Red Margin, RH Red Headline.
2D		7x8½	Alt. $\frac{3}{16}$ ⅜ LW	.72	.66	

White Pen and Ink Practice

WHITE COMPOSITION, THEME, PENMANSHIP

400A	16 lb	8x10½	⅜″ SW	1.00	.92	Composition Paper
130	16 lb	8x10½	⅜″ SW RM	1.00	.92	Theme Paper
600	16 lb	8x10½	⅜″ SW RH	1.00	.92	Penmanship
4	18 lb	8½x11	⅜″ SW	1.24	1.13	Composition
4A	18 lb	8x10½	⅜″ SW	1.13	1.02	Composition
13	18 lb	8x10½	⅜″ SW RM	1.13	1.02	Theme
5	18 lb	8½x11	⅜″ SW RM	1.24	1.13	Theme
6	16 lb	8x10½	⅜″ SW RH	1.00	.92	Penmanship



White Pen and Ink Practice

MUSIC PAPER

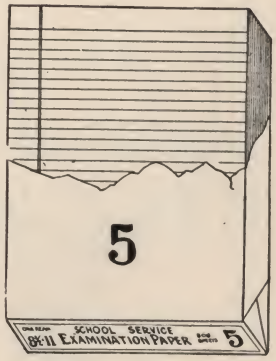
10	16 lb	7x8½	Music LW	.78	.71	Music Paper, staff ruled. Blue ruling.
10A	16 lb	8x10½	Music SW	1.00	.91	

PRIMARY STORY PAPER

24S		24x36	1″ LW	6.40	——	Primary Story paper.
18S		18x24	1″ LW	3.20	——	

WHITE WRITING PRACTICE PAPER

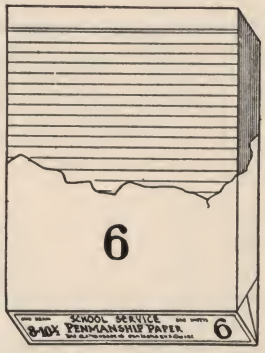
72		6x9	⅜″ SW	.40	.37	Newsprint paper, ruled for writing use. This is an inexpensive writing paper for practice use.
73		8x10	⅜″ SW	.65	.60	
74		9x12	⅜″ SW	.80	.74	
75		8x10½	Alt ½″ Lt & Hy	.67	.62	



White Composition
Red Margin

YELLOW WRITING PRACTICE

34Y		7x8½	⅜″ LW	.50	.46	Yellow practice paper, ruled with blue lines for use as a practice paper.
32Y		7x8½	⅜″ SW	.50	.46	
30Y		6x9	⅜″ SW	.45	.41	
36Y		7x8½	½″ LW	.50	.46	
31Y		7x8½	½″ SW	.50	.46	
37Y		7x8½	¾″ LW	.50	.46	
33Y		7x8½	1″ LW	.50	.46	
41Y		7x8½	Alt $\frac{3}{16}$ ⅜ LW	.50	.46	
38Y		8x10½	⅜″ SW	.72	.66	
44Y		8½x11	⅜″ SW	.80	.74	
40Y		8x10½	⅜″ SW RM	.72	.66	
42Y		8x10½	⅜″ SW RH	.72	.66	



White Composition
Red Headline

UNRULED PRACTICE PAPERS

69		6x9	Unruled	.37	.34	Unruled practice papers for free hand writing use. Extensively used as arithmetic paper.
81		8½x11	Unruled	.64	.59	
92		9x12	Unruled	.74	.68	
58Y		5½x8½	Unruled	.32	.30	Furnished in either yellow or white as indicated. White is unruled newsprint. Yellow is unruled Railroad Manila paper.
500Y		8½x11	Unruled	.70	.65	
514Y		8½x14	Unruled	.89	.76	

DRAWING PAPERS

WHITE DRAWING

No.	Wt.	Size	1 to 16 Reams	Over 16 Reams	Description
No. 2	60 lbs.	9x12 12x18 18x24	2.08 4.16 8.32	2.00 4.00 8.00	A light weight, all purpose paper, of fine quality and finish. Suitable for charcoal, pencil, crayon, tempera, and general use. Finest Quality Drawing.
No. 1	70 lbs.	9x12 12x18 18x24	2.50 5.00 10.00	2.25 4.50 9.00	A medium weight, high quality paper, made expressly for water color and fine drawing work. Finest Quality Drawing.
No. 8	80 lbs.	9x12 12x18 18x24	2.91 5.82 11.64	2.67 5.34 10.69	A heavy weight, dual purpose paper, one side smooth for pen and ink drawing, and the other rough for water color work. Finest Quality Drawing.
No. 10	90 lbs.	9x12 12x18 18x24	3.50 7.00 14.00	3.00 6.00 12.00	A very heavy, superior quality paper, for fine pencil work, pen and ink drawing, water colors, and tempera work. Finest Quality Drawing.

MANILA DRAWING

No. 3	50 lbs.	9x12 12x18 18x24	1.51 3.02 6.04	1.38 2.76 5.52	A good all around cream manila paper for practice work with pencil and crayon. Particularly suited for the lower grades.
No. 9	64 lbs.	9x12 12x18 18x24	1.75 3.50 7.00	1.68 3.25 6.50	A heavy weight brush manila with properly sized surface for water colors, tempera, and easel paints.
No. 100		36"x200 yd.	8.20 Roll		A medium weight manila paper in rolls.

GRAY MANILA DRAWING

No. 4	50 lbs.	9x12 12x18 18x24	1.64 3.28 6.56	1.50 3.00 6.00	A good practice drawing paper for use when a darker background than cream manila is desired.

CHARCOAL DRAWING

No. 19		19x24	1.50 QR		A high grade, rough finish charcoal paper.
No. 20		19x25	3.00 QR		A superior paper for advanced charcoal work.

MECHANICAL DRAWING

			100 Sheet Pkg.	Ream	
No. 7		9x12 11x15 12x18	1.50 1.60 3.00	7.00 7.50 14.00	A very fine white paper, that will not feather, will erase well, will not shine, and especially suited for fine detail.
No. 6		9x12 11x15 12x18	1.60 1.66 3.20	7.50 8.00 15.00	Same quality paper as white mechanical drawing above except buff in color for other types of work.

PRACTICE DRAWING AND TRACING

			1–49 RM	49 or More	
No. 92 No. 121 No. 182 No. 243		9x12 12x18 18x24 24x36	.74 1.48 2.96 5.82	.68 1.36 2.72 5.44	A good quality newsprint paper unruled, in convenient sizes for all types of practice sketching, drawing, and color work.
No. 184P		18x24	1.20 ea	Doz. 12.00	Easel pads newsprint 100 sheets each.
No. 17		17x22	.10 doz. sheets		A clear transparent paper for tracing.

SCHOOL SERVICE CONSTRUCTION AND POSTER PAPER

SCHOOL SERVICE Construction and Poster Paper is the best quality paper of its type available. The exceptionally wide range of correct vivid colors as well as shades and tones makes School Service construction and poster paper the best for all types of art and project work. This paper is of the right texture for all types of crayon and art color work.

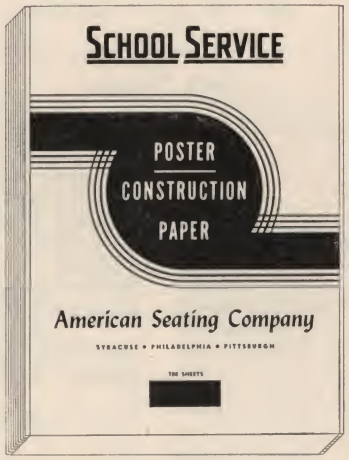
Each one hundred sheet package is attractively banded and can be purchased in the following sizes: 9x12, 12x18 and 18x24.

CONSTRUCTION PAPER

1000	Scarlet	1017	Dk. Red
1001	Red Orange	1018	Lt. Yellow
1002	Orange	1023	Lt. Green
1003	Yellow-Orange	1024	Med. Green
1004	Yellow	1025	Dk. Green
1005	Yellow-Green	1026	Lt. Blue
1006	Green	1027	Med. Blue
1007	Blue-Green	1028	Royal Blue
1008	Deep Blue	1030	Lt. Violet
1009	Violet	1031	Lt. Brown
1010	White	1032	Brown
1011	Lt. Gray	1035	Black
1012	Gray Granite	1036	Dk. Brown
1013	Dark Gray	1037	Red
1015	Lt. Red	568	Assorted

PRICES—CONSTRUCTION PAPER

100 sheets package— 9x12	.60
100 sheets package—12x18	1.20
100 sheets package—18x24	2.40
100 sheets package—24x36	4.80



Specify Number, Size, and Color When Ordering

Sold in Full Packages Only

POSTER PAPER

2000	Scarlet	2015	Lt. Red
2001	Red-Orange	2018	Lt. Yellow
2002	Orange	2023	Lt. Green
2003	Yellow-Orange	2025	Dk. Green
2004	Yellow	2026	Lt. Blue
2005	Yellow-Green	2027	Med. Blue
2006	Green	2030	Lt. Violet
2007	Blue-Green	2032	Brown
2008	Deep Blue	2035	Black
2009	Violet	2037	Red
2010	White	566	Assorted
2011	Lt. Gray		

PRICES—POSTER PAPER

100 sheets package— 9x12	.30
100 sheets package—12x18	.60
100 sheets package—18x24	1.20
100 sheets package—24x36	2.40

ART AND PROJECT PAPERS

BRISTOL BOARD

Good quality, smooth finish, medium weight. 4-ply thickness. Size 22x28. Colors: Red, Orange, Yellow, Green, Blue, Pink and White.

	Each	Per 100
Colors	.18	1.50
White	.11	.95

MAT STOCK

This light weight cardboard, of excellent quality is in general use as mounting board for pictures. It also makes a good foundation for crepe paper novelties and desirable material for kindergarten and cutout work. Size 22x28.

No.	Color	No.	Color
M11	White	M43	Shamrock Gr.
M12	Black	M81	Pompeian Red
M52	National Blue	M97	Silver

	Per dozen
Regular Colors	2.60
Silver	3.25

MELTON PHOTO MOUNTS

A special surface board for school exhibition work. 12-ply 22x28.

No.	Color	No.	Color
4403	Chocolate	4413	Dark Green
4405	Fox Brown	4450	Snow White
4406	English Tan	4454	Egg Shell
4407	Black	4471	Mist Gray
4412	Ash Gray		

	Per sheet	Per doz.
All Colors	.25	2.50

SHOW CARD BOARD

A heavy poster mounting board prepared for Poster Artists, Card Writers and Art Classes. Has a velvety quick drying surface. Ideal to letter on with pen, tempera show card colors or air brush. Dull finish coated board—14-ply thickness. 22x28.

No. 1900	White	No. 1914	Maroon
No. 1902	Lt. Green	No. 1916	Brown
No. 1905	Lt. Blue	No. 1933	Red
No. 1909	Black	No. 1935	Blue
No. 1911	Yellow	No. 1936	Green
No. 1913	Orange	No. 1954	Gray

Per sheet .60 Doz. 6.00 Per 100 50.00

DISPLAY CARD BOARD

A 6-ply showcard board for use where a light weight stock is desired. 22x28.

No. 1206	White	No. 1260	Green
No. 1207	Ivory	No. 1261	Blue
No. 1257	Tan	No. 1270	Black
No. 1258	Yellow	No. 1272	Red

Size 22x28. Per sheet .15 Per doz. 1.50

CHIP BOARD

Heavy gray board suitable for mounting, covers, etc. Size 30x40 and packed in bundles.

No. 40	32 pieces. Per bundle	8.00
No. 60	49 pieces. Per bundle	8.00
No. 70	57 pieces. Per bundle	8.00

SCHOOL SERVICE TAG BOARD

A good quality manila tag stock used for chart making, word strips. 150 lb.

T-6	6x9	100 sheets	.75
T-9	9x12	100 sheets	1.50
T-12	12x18	100 sheets	3.00
T-18	18x24	100 sheets	6.00
T-24	24x36	100 sheets	12.00
	24x36	Single sheets	.15

COLORED FOLDING TAG

A colored art tag for folding, mounting, etc. Colors: Red, Orange, Yellow, Green, Blue, and Natural. In packages of 100 sheets solid colors or assorted.

C-6	6x9	.50
C-9	9x12	1.00
C-12	12x18	2.00
C-18	18x24	4.00

ROLL CONSTRUCTION PAPER

White, Brown, Light Blue, Green, Black, Blue Green.

Per roll 36" x 20 yards 2.50

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SCHOOL SERVICE

SUPPLIES

Give complete satisfaction plus economy.

BUY "SCHOOL SERVICE"

AND

BUY WISELY.

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If you do not find what you want in this catalog, check with us concerning our numerous other catalogs and brochures. As specialists in school supplies, we are sure that we can help you to secure the proper equipment for your individual situation.

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And so you see, this isn't the end. This is only the beginning of what we hope will be a most pleasant relationship between you, the customer, and the AMERICAN SEATING COMPANY, your supply house for finer school equipment and supplies.

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